Certificate Course On

Python Programming

09/05/2022 to 21/05/2022

Coordinators: Smt. S. RIYAZBANU

Smt. K. Sujuna kumari



(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India-516 003



An ISO 14001:2004 & 9001: 2015 Certified Institution



Lr./KSRMCE/ CSE/Python Programming / Certification Course/2022

Date: 04.05.2022

To The Principal, K.S.R.M.College of Engineering Kadapa.

From

S.RiyazBanu, Assistant Professor, **CSE** Department K.S.R.M.College of Engineering Kadapa.

Respected Sir,

Sub: KSRMCE - Permission to conduct Certification Course on Python Programming -CSE Department -Requested - Reg.

It is being brought to your kind notice that, With reference to the cited, the CSE Department is planning to organise Certification Course on "Python Programming" for all IV sem B.Tech Students from 9th May 2022 to 21st May 2022. In this regard I kindly request you Sir to grant the permission for organizing Certification Course in offline mode. This is submitted for your kind perusal.

Thanking you Sir,

Yours Faithfully,

S.RiyazBanu, Assistant Professor.

CSE Department

K.S.R.M.College of Engineering

(Autonomous)

Cc:

To The Director for Information

To All Deans /HOD's

/ksrmce.ac.in

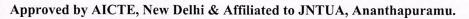
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Cr./KSRMCE/CSE Dept/ Python Programming /Certification Course /2021-22

Date:04-05-2022

Circular

All B.Tech students are hereby informed that CSE department is going to organize 30 Hours certification course on "Python Programming" for all Branch IV sem B.Tech students from 9th May 2022 to 21st May 2022. So interested students may register their names with "Python Programming" Certification Course Coordinator S.RiyazBanu, Assistant professor in CSE department on or before 7th May 2022. yary:

Cc to:

The Director for information

All Deans/HODs



(UGC - AUTONOMOUS)

Kadapa, Andhra Pradesh,India - 516003 Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

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Department of Computer Science & Engineering Certificate Course on Python Programming Registration Form

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	54	2094140AEZ	K. Esmar Sai	<i>ECE</i>	V	K. Chwaren

Coordinator(s)

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Python Programming

Syllabus



UNIT-1

Features of python, Execution of a python program, comments, identifiers and variables and some simple examples of python programming.

UNIT-2

classification of data types, keywords, constants, Naming conventions in python, Operators and expressions, operator precedence and associativity, input and output statements, examples.

UNIT-3

Control statements: simple if, if..else, nested if, if..elif..else statement. Loops: while loop,for loop, nested loops, break, continue, pass and assert statements, Arrays in python,Strings and their operations.



UNIT-4

Functions: define and calling a function, return statement, formal and actual arguments,local and global variables, passing arguments to function, anonymous functions, example programs on functions, recursion.

UNIT-5

Python program to find Roots of Quadratic equation, Given number is Prime or not Display Prime numbers upto given number n, Reverse the string without reverse() function, Find list of words that are larger than n from a given list of words, Write a program to print each line of a file in reverse order.

ROCKTONY
COORDINATOR

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Department of Computer Science & Engineering

Certificate Course on Python Programming

Schedule

S.No	Date	Time	Faculty	Topic
1	09/05/2022	4 PM to 6 PM	S.Riyazbanu	Features of python, Execution of a python program, comments
2	10/05/2022	4 PM to 6 PM	S.Riyazbanu	identifiers and variables and some simple examples of python programming.
3	11/05/2022	4 PM to 6 PM	S.Riyazbanu	classification of data types, keywords, constants, Naming conventions in python
4	12/05/2022	4 PM to 6 PM	K.Sujuna kumari	operator precedence and associativity, input and output statements, examples
5	13/05/2022	# PM to 6 PM	S.Riyazbanu	Operators and expressions
6	14/05/2022	4 PM to 6 PM	K.Sujuna kumari	Control statements: simple if, ifelse, nested if, ifelifelse statement
7	15/05/2022	10 to 4 pm	S.Riyazbanu	Examples of python

8	16/05/2022	4 PM to 6 PM	S.Riyazbanu	Loops: while loop,for loop, nested loops, break, continue, pass and assert statements
9	17/05/2022	4 PM to 6 PM	K.Sujuna kumari	Arrays in python, Strings and their operations.
10	18/05/2022	4 PM to 6 PM	S.Riyazbanu	Functions
11	19/05/2022	4 PM to 6 PM	S.Riyazbanu	Example of Functions
12	20/05/2022	4 PM to 6 PM	S.Riyazbanu	example programs on functions, recursion.
13	21/05/2022	4 PM to 6 PM	S.Riyazbanu	Practically tried some programs

Rygy Bany Coordinator

HOD
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Department of Computer Science & Engineering

Certificate Course on Fundamentals of Python

Attendance Sheet

S. N o	Roll Number	Name of the Student	09/05/2022	10/05/2022	11/05/2022	12/05/2022	13/05/2022	14/05/2022	15/05/2022	16/05/2022	17/05/2022	18/05/2022	19/05/2022	20/02/2022	21/05/2022
1						1	-			-			-	7	7
1	219Y5A0123	B. Parimala	P	P	P	P	P	P	P	P	P	P	P	P	P
2	209Y1A04F4	Botta.kalyani	P	P	P	P	A	P	P	P	P	P	A	P	P
3	209Y1A0403	J. Nagamani	P	P	P	P	P	P	A	P	P	Á	P	P	P
4	219Y5A0407	Peram Roja Reddy	P	P	P	P	P	P	P	P	A	P	P	A	P
5	209Y1A04F3	U.Poojitha	P	A	P	P	P	P	-A	P	P	P	A	P	P
6	209Y1A04D5	V. Anusha	P	P	P	P	P	P	P	P	P	P	P	P	A
7	209Y1A0125	A Uday kumar Reddy	A	P	P	P	P	A	P	P	P	P	P	P	P
8	219Y5A0126	M. Ranjith kumar	P	P	P	A	P	P	P	A	P	P	P	P	P
9	209Y1A0128	SHAIK THAKKALLA YUNUS	P	P	A	P	P	P	P	P	P	P	P	P	P
10	219Y5A0503	J.vasu	P	P	P	P	P	A	P	P	A	A	P	P	P
11	219Y5A0155	V C MADHU SAI VENKAT	P	P	P	A	P	P	P	P	P	P	P	A	P
12	219Y5A0136	A Samson	P	A	P	P	P	P	P	P	P	P	P	A	9

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13	219Y5A0111	Ganjikunta Saritha	P	P	P	P	P	P	A	P	P	P	A	P	P
14	219Y5A0117	Vasantha Pallavi	P	P	P	A	P	P	P	P	P	A	P	P	P
15	219Y5A0116	S siva ruchitha	P	P	P	P	P	P	P	P	A	P	P	P	P
16	209Y1A0434	K.Harindranath	P	P	· P	P	A	P	P	P	P	A	P	P	P
17	209Y1A0168	Kamireddy jaipal reddy	P	P	P	P	P	A	P	10	P	P	P	P	D
18	219Y5A0110	K. Eswar sai	P	P	P	P	P	P	A	P	P	P	P	P	P
19	219Y5A0106	Bathala Raja Rajeswari	P	A	P	P	P	P	P	P	P	12	P	P	P
20	219Y5A0112	Lalappa	P	P	A	P	P	P	P	P	P	P	P	A	A
21	209Y1A0162	Kuruva Bangaru veeresh	P	P	P	P	P	P	P	P	P	P	p	P	P
22	209Y1A04F5	CHALLA NAVEEN	P	P	P	P	P	P	P	P	P	P	P	P	P
23	209Y1A0170	E. Guruteja	P	P	P	P	A	A	P	P	P	P	P	A	P
24	209Y1A04F1	D Hemanth kumar	P	P	A	P	P	P	P	A	P	P	P	P	P
25	219Y5A0101	Sivapavani	P	P	P	P	P	P	P	P	P	A	P	P	P
26	209Y1A04F6	VINAY RAMTHU	P	P	P	P	P	P	P	P	P	P	P	A	P
27	209Y1A04F2	B Roopesh reddy	P	ρ	P	A	P	P	P	P	P	P	P	P	P
28	219Y5A0123	B.Munivardhan	A	P	A	P	A	P	P	P	P	P	P	P	P
29	209Y1A04F4	C. Nikileswara	P	P	P	P	P	P	P	P	P	P	P	A	P
30	209Y1A0403	Pattem kalpana	P	A	P	P	P	P	P	P	P	P	P	P	P
31	219Y5A0407	V.Swapna	P	P	P	P	P	P .	A	P	P	A	P	P	A
32	209Y1A04F3	Seelam sravanthi	A	P	P	A	P	P	P	P	A	P	P	P	P
33	209Y1A04D5	Vaka Nandini	P	P	A	P	P	P	P	P	A	P	P	P	Q

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34	209Y1A0125	Ajjugottu Rajitha	P	P	P	A	P	P	P	P	P	A	P	A	P
35	219Y5A0126	VENEKE SNEHA LATHA REDDY	P	P	P	P	P	P	A	A	P	P	P	P	P
36	209Y1A0128	Vangiti. Varshini	P	P	P	P	A	P	A	P	p	P	P	P	P
37	219Y5A0503	B. Parimala	P	P	P	A	A	P	P	P	P	P	P	P	P
38	219Y5A0155	Botta.kalyani	P	P	P	P	A	P	P	P	P	P	P	A	A
39	219Y5A0136	J. Nagamani	P	P	P	P	P	P	P	A	A	P	P	P	P
40	219Y5A0111	Peram Roja Reddy	P	P	P	P	P	A	P	+	P	P	P	P	P
41	219Y5A0117	U.Poojitha	P	A	A	P	P	P	P	P	P	P	P	P	P
42	219Y5A0116	V. Anusha	A	P	P	P	A	P	P	P	A	P	P	P	P
43	209Y1A0434	A Uday kumar Reddy	P	P	P	A	A	P	P	P	P	P	P	P	P
44	209Y1A0168	M. Ranjith kumar	P	P	P	P	A	P	P	A	P	P	P	P	A
45	219Y5A0110	SHAIK THAKKALLA YUNUS	P	P	P	A	P	P	P	P	A	P	P	p	P
46	219Y5A0106	J.vasu	P	A	P	P	P	P	A	P	P	P	P	P	P
47	219Y5A0112	V C MADHU SAI VENKAT	P	P	P	P	A	A	P	P	A	P	P	P	P
48	209Y1A0162	A Samson	P	P	P	P	A	P	P	P	P	P	P	P	A
49	209Y1A04F5	Ganjikunta Saritha	P	P	A	A	P	P	P	P	P	P	P	P	P
50	209Y1A0170	Vasantha Pallavi	*	P	P	P	P	P	P	A	P	A	A	P	P
51	209Y1A04F1	S siva ruchitha	P	P	P	P	P	P	A	A	P	P	P	P	P

52	219Y5A0101	K.Harindranath	P	P	P	A	P	P	P	P	A	P	P	P	P
53	209Y1A04F6	Kamireddy jaipal reddy	P	A	P	P	P	A	P	P	P	A	P	A	P
54	209Y1A04F2	K. Eswar sai	A	P	P	P	P	P	A	P	A	P	P	P	P

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Certification course on "PYTHON PROGRAMMING"



Department of CSE



9-05-2022 TO 21-05-2022 4:00 PM TO 5:00 PM

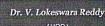


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Coordinator S.RIYAZBANU

Co-Coordinator K.SUJANA KUMARI



Dr. V.S.S. Murthy (Principal)

Dr. Kandula Chandra Obul Reddy (MD, Kandula Group of Institutions) (Correspondent, Secretary & Treasurer)

Sri K. Madan Mohan Reddy (Vice - Chairman)

Sri K. Raja Mohan Reddy (Chairman)









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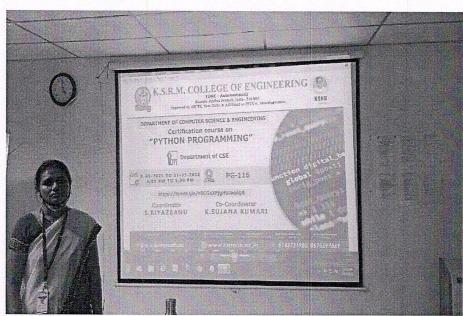


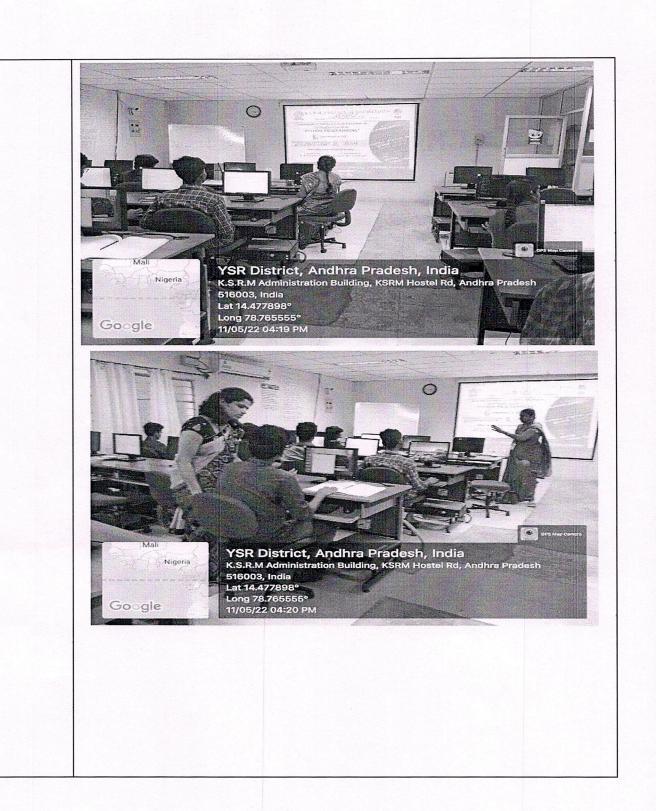
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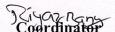
Activity Report

Name of the Activity	PYTHON PROGRAMMING						
Type of Activity	CERTIFICATION COURSE						
Date and Time of	09-05-2022 21-05-2022						
Activity							
Details of Participants	IV SEM B.TECH STUDENTS	54					
Coordinator(s)	S.RIYAZBANU	7					
Organizing	ORGANIZER:S.RIYAZBANU						
Dept./Support System	SUPPORT SYSTEM:K.SUJUNA KUMAI	RI					
Description	This course is use full to all IV sem E interpreted, interactive and object-oriented to be highly readable. It uses English languages use punctuation, and it has few languages.Rather than building all of its designed to be highly extensible via modu it particularly popular as a means of addi applications. Van Rossum's vision of a sm library and easily extensible interpreter ste	keywords frequently where as other ver syntactical constructions than other functionality into its core, Python was ales. This compact modularity has made and programmable interfaces to existing that core language with a large standard					
	which espoused the opposite approach.						

Photos







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KSNR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certifiy	that <i>Mr/Miss</i>	P.Sunanda
bearing Roll No_	219Y5A0156	_ participated in a Certifica-
tion course on "P	ython Programmin	g" organized by Department
of Computer Science	e and Engineering fr	om 9 th to 21 st May, 2022.

Riyaz Bany Coordinator HOD CSE

V. S. S. Mw/5 Principal





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KSNR lives on.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certifiy that *Mr/Miss*. **P.Rahama thullah** bearing Roll No 219Y5A0153 participated in a Certification course on "**Python** Programming" organized by Department of Computer Science and Engineering from 9th to 21st May, 2022.

Riyaz Bany Coordinator HOD CSE

V s s. Mw 5 Principal





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KSNR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certifiy that *Mr/Miss*. **M.Guru Lakshmi** bearing Roll No 219Y5A0142 participated in a Certification course on "**Python** Programming" organized by Department of Computer Science and Engineering from 9th to 21st May, 2022.

Riyaz Bany Coordinator HOD CSE

V s. s. Mwl5 Principal

4. Very Good

5. Excellent

Feedback form on Certificate Course

3. Good

Python Programming (09/05/2022 to 21/05/2022)

Note: 1. Below average 2. Average

* R	equired
1.	Roll Number *
2.	Name of the Student *
3.	B.Tech Semester *
	Mark only one oval.
	I Sem
	II Sem
	III Sem IV Sem
	V Sem
	VI Sem
	VII Sem
	VIII Sem

J	4.	Branch *
		Mark only one oval.
		Civil Engineering
		EEE
		─ ME
		ECE
		CSE
		AI&ML
	5.	Email ID *
	٥.	
	6.	Is the course content met your expectation. *
		Mark only one oval.
		Yes
		O No
	7.	Is the lecture sequence well planned? *
		Mark only one oval.
		Yes
		No No
	8.	The contents of the course are explained with examples.
		Mark only one oval.
		Agree
		Moderate
		strongly agree

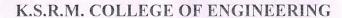
9.	Is the level of course high. *
	Mark only one oval.
	Agree
	Moderate
	strongly agree
10.	Is the course exposed you to the new knowledge and practice.
	Mark only one oval.
	Agree
	Moderate
	strongly agree
11.	Is the lecture clear and easy to understand? *
	Mark only one oval.
	2
	3
	<u> </u>
12.	Rate the value of the course increasing your skills. *
	Mark only one oval.
	2
	3
	4

13. Any Issues

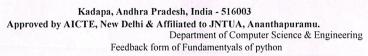
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(UGC - AUTONOMOUS)





S.No.	Email address	Name of the student	Year & Semester	Roll Num	Is the course content met your expectation	Is the lecture sequence well planned	The contents of the course is explained with examples	Is the level of course high	exposed you to the new knowledge and practices	clear and	Kate the value of course in increasing your skills	Any issues
1	1 209y1a0123@ksrmce.ac.in	Siva Sai Tilak Reddy	IV-Civil engineering -ASe	209y1a0123	Yes	Yes	Agree	Agree	Strongly agree	4	5	Nothing
	2 209y1a0160@ksrmce.ac.in	P. Prasad	4 civil b/s	209y1a0160	Yes	Yes	Agree	Agree	Strongly agree	5	5	Nothing
	3 209y1a0460(a)ksrmce.ac.in	G. Manoj	4/ECE-B/S	209y1a0460	Yes	Yes	Agree	Agree	Strongly agree	4	5	Good
- 4	219y5aU113@ksrmce.ac.in	C.Guru prasad	4/civil/B	219y5a0113	Yes	Yes	Agree	Agree	Strongly agree	5	5	nothing
5	5 209yla05i9@ksrmce.ac.in	YELUGOTI JESHNAVI	4/CSE/C	209Y1A05I9	Yes	Yes	Agree	Agree	Strongly agree	5	5	Good
(5 219y5a0507@ksrmce.ac.in	Jeerla Madhu	2nd year ,4th sem, Branch	219y5a0507	Yes	Yes	Agree	Agree	Strongly agree	4	5	very good
7	7 209yla0347@ksrmce.ac.in	P.Anil kumar	4th sem /Mechanical/ A/	209y1a0347	Yes	Yes	Strongly agree	Agree	Strongly agree	4	3	Nothing
5	3 209vla0116@ksrmce.ac.in	Cherasalaudaykiran	4/civil/A	209v1a0116	Yes	Yes	agree	Agree	Strongly agree	4	4	no
Control of the Control	209yla0106@ksrmce.ac.in	Bandi dinesh kumar	4 civil A	209y1a0106	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Nothing
	209yla0147@ksrmce.ac.in	M.Rahul	4thsem/civil/A/s	209y1a0100	Yes	Yes	Strongly agree	Agree	Strongly agree	5		Good
	1 209y1a0124@ksrmce.ac.in	K.kesava	4th sem/ Civil A/S	209y1a0147	Yes	Yes	Agree	Agree	Strongly agree	5		Good
	2 209y1a04f7@ksrmce.ac.in	Y.Bharath	4th sem ECE C/S	209Y1A04F7	197-	Yes		-	Strongly agree	01 / 5		Good
	, ,						agree	Agree		3		Good
	3 219y5a0302@ksrmce.ac.in	Badugu Karthik	4sem,/mec/B sec	219y5A0302	Yes	Yes	agree	Agree	Strongly agree	-		
	4 209yla04e0@ksrmce.ac.in	Syed Umar Mukthiyar	IV/ECE/C-S	209Y1A04E0		Yes	agree	Agree	Strongly agree	5		very good
	5 209y1a05g6@ksrmce.ac.in	Syed Ajas Basha	4/CSE/c	7 0	Yes	Yes	agree	Agree	Strongly agree	4		very good
16	5 209y1a04a3@ksrmce.ac.in	N.harathi	4/ECE/B	209Y1A04A3	Yes	Yes	agree	Agree	Strongly agree	7 5		very good
17	7 209y1a05e4@ksrmce.ac.in	S Reddy Sai Varma	4th sem Cse-c	209Y1A05E4	Yes	Yes	agree	Agree	Strongly agree	3	5	no
18	8 219y5a0402@ksrmce.ac.in	B. Pallavi	4 th sem, ECE, C section	219y5a0402	Yes	Yes	agree	Agree	Strongly agree	4	5	nithing
19	219y5a0403@ksrmce.ac.in	B. Parimala	4 sem/ECE/C-section	219Y5A0403	Yes	Yes	Strongly agree	Agree	Strongly agree	4		Good
20	209y1a0418@ksrmce.ac.in	Botta.kalyani	ECE-A/S	209y1a0418	Yes	Yes	Strongly agree	Agree	Strongly agree	4		Good
21	/	J. Nagamani	4 th ECE -B	209y1a0465	Yes	Yes	Strongly agree	Agree	Strongly agree	4		Good
22	, ,	Peram Roja Reddy	4 th sem/ ECE /B section	209Y1A04B4		Yes	agree	Agree	Strongly agree	4		Good
23		U.Poojitha	4th sem,civil,B sec	209y1a0189	Yes	Yes	agree	Agree	Strongly agree	5		Good
	4 209y1a0191@ksrmce.ac.in	V. Anusha	IV sem/civil/B	209y1a0191	Yes	Yes	Strongly agree	Agree	Strongly agree	5		Good
	5 209y1a0404@ksrmce.ac.in	A Uday kumar Reddy	4th sem/ECE/A/S	209Y1A0404		Yes	agree	Agree	Strongly agree	5		Good
	5 209y1a0333@ksrmce.ac.in	M. Ranjith kumar	4thsem mechanical A sect		Yes	Yes	agree	Agree	Strongly agree	5		Nothing
	7 219y5a0167@ksrmce.ac.in		4TH SEM -CIVIL-C-SEC			Yes	agree	Agree	Strongly agree			
28		J.vasu	Civil c-section	219y5a0123	Yes	Yes	agree	Agree	Strongly agree	3		no
	209y1a04f4@ksrmce.ac.in	V C MADHU SAI VENKAT	4thsem/ECE/c-sec	209Y1A04F4		Yes	Strongly agree	Agree	Strongly agree	3		no
_	209y1a0403@ksrmce.ac.in	A Samson	4thsem/ECE/A/S	209Y1A0403		Yes	Strongly agree	Agree	Strongly agree			no
	1 219y5a0407@ksrmce.ac.in	Ganjikunta Saritha	4th sem/ECE/C-section		Yes	Yes	Strongly agree	Agree	Strongly agree	5		nothing
	2 209y1a04f3@ksrmce.ac.in	Vasantha Pallavi	4sem/ECE-C/s	209y1a04f3	Yes Yes	Yes Yes	agree	Agree Agree	Strongly agree Strongly agree	5		Nothing
	3 209y1a04d5@ksrmce.ac.in	S siva ruchitha	4 ece c	209y1a04d5			agree			5		
	1 209y1a0125@ksrmce.ac.in	K.Harindranath	4/civil/A	209y1a0125	Yes	Yes	agree	Agree	Strongly agree	5		Nothing
	5 219y5a0126@ksrmce.ac.in	Kamireddy jaipal reddy	4th sem / civil / C- section			Yes	agree	Agree	Strongly agree			Good
	5 209y1a0128@ksrmce.ac.in	K. Eswar sai	4th civil A	209y1a0128	Yes	Yes	agree	Agree	Strongly agree	5		Good
	7 219y5a0503@ksrmce.ac.in	Bathala Raja Rajeswari	IVth sem CSE-C	219Y5A0503		Yes	agree	Agree	Strongly agree	5		Good
	8 219y5a0155@ksrmce.ac.in	Lalappa	4th sem in civil engineering	,	Yes	Yes	Strongly agree	Agree	Strongly agree	5		Good
39	9 219y5a0136@ksrmce.ac.in	Kuruva Bangaru veeresh	2-2/civil engineering/c_se	219y5a0136	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good

40 219y5a0111@ksrmce.ac.in	CHALLA NAVEEN	4th sem/civil enginee	ring/219y5a0111	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5 Good
41 219y5a0117@ksrmce.ac.in	E. Guruteja	IV /civil/ B/S	219y5a0117	Yes	Yes	agree	Agree	Strongly agree	4	4 Good
42 219y5a0116@ksrmce.ac.in	D Hemanth kumar	4 sem , civil engineer	ing, 219Y5A0116	Yes	Yes	agree	Agree	Strongly agree	4	5 Good
43 209y1a0434@ksrmce.ac.in	Sivapavani	4sem/ECE/A	209Y1A0434	Yes	Yes	agree	Agree	Strongly agree	4	5 Good
44 209y1a0168@ksrmce.ac.in	VINAY RAMTHU	4th sem/Civil/B/S	209y1a0168	Yes	Yes	agree	Agree	Strongly agree	3	5 Good
45 219y5a0110@ksrmce.ac.in	B Roopesh reddy	B section civil	219y5a0110	Yes	Yes	agree	Agree	Strongly agree	3	5 Nothing
46 219y5a0106@ksrmce.ac.in	B.Munivardhan	4th sem, civil (B)	219y5a0106	Yes	Yes	Strongly agree	Agree	Strongly agree	2	5 Nothing
47 219y5a0112@ksrmce.ac.in	C. Nikileswara	4/civil/b	219y5a0112	Yes	Yes	agree	Agree	Strongly agree	2	5 very good
	Pattem kalpana	Civil-B-4 sem	209y1a0162	Yes	Yes	agree	Agree	Strongly agree	4	5 very good
49 209y1a04f5@ksrmce.ac.in	V.Swapna	4/ECE/C	209Y1A04F5	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5 very good
50 209y1a0170@ksrmce.ac.in	Seelam sravanthi	Civil B section 4sem	209y1a0170	Yes	Yes	Strongly agree	Agree	Strongly agree	4	5 nothing
51 209v1a04f1@ksrmce.ac.in	Vaka Nandini	4th ECE-C section	209Y1A04F1	Yes	Yes	agree	Agree	Strongly agree	4	5 Good
		Civil B/ section 4 sen	1 219Y5A0101	Yes	Yes	agree	Agree	Strongly agree	4	5 Good
53 209y1a04f6@ksrmce.ac.in	VENEKE SNEHA LATHA RED	4th,ECE,C/S	209y1a04f6	Yes	Yes	agree	Agree	Strongly agree	4	5 Good
54 209y1a04f2@ksrmce.ac.in	Vangiti, Varshini	4th ,ECE/ C	209y1a04f2	Yes	Yes	agree	Agree	Strongly agree	4	5 Good

Riyas Bany Coordinator Dr. V. LOKESWAPA DESMAN

Professor 8 K.S.R.M. College of Engineering KADAPA - 516 005.

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED / CERTIFICATE COURSE ON PYTHON PROGRAMMING FROM 09/05/2022 TO 21/05/2022 AWARD LIST

S.No	Roll Number	Name of the Student	Marks Obtained
1	219Y5A0123	B. Parimala	13
2	209Y1A04F4	Botta.Kalyani	14
3	209Y1A0403	J. Nagamani	12
4	219Y5A0407	Peram Roja Reddy	16
5	209Y1A04F3	U.Poojitha	15
6	209Y1A04D5	V. Anusha	17
7	209Y1A0125	A Uday Kumar Reddy	18
8	219Y5A0126	M. Ranjith Kumar	15
9	209Y1A0128	Shaik Thakkalla Yunus	12
10	219Y5A0503	J.Vasu	10
11	219Y5A0155	V C Madhu Sai Venkat	11
12	219Y5A0136	A Samson	09
13	219Y5A0111	Ganjikunta Saritha	12
14	219Y5A0117	Vasantha Pallavi	15
15	219Y5A0116	S Siva Ruchitha	16
16	209Y1A0434	K.Harindranath	12
17	209Y1A0168	Kamireddy Jaipal Reddy	18
18	219Y5A0110	K. Eswar Sai	19
19	219Y5A0106	Bathala Raja Rajeswari	12
20	219Y5A0112	Lalappa	16
21	209Y1A0162	Kuruva Bangaru Veeresh	17
22	209Y1A04F5	Challa Naveen	13
23	209Y1A0170	E. Guruteja	15
24	209Y1A04F1	D Hemanth Kumar	14
25	219Y5A0101	Sivapavani	16
26	209Y1A04F6	Vinay Ramthu	12
27	209Y1A04F2	B Roopesh Reddy	14
28	219Y5A0123	B.Munivardhan	08
29	209Y1A04F4	C. Nikileswara	16
30	209Y1A0403	Pattem Kalpana	15
31	219Y5A0407	V.Swapna	14
32	209Y1A04F3	Seelam Sravanthi	17
33	209Y1A04D5	Vaka Nandini	15
34	209Y1A0125	Ajjugottu Rajitha	16
35	219Y5A0126	Veneke Sneha Latha Reddy	13
36	209Y1A0128	Vangiti. Varshini	15
37	219Y5A0503	B. Parimala	05
38	219Y5A0155	Botta.Kalyani	16
39	219Y5A0136	J. Nagamani	15
40	219Y5A0111	Peram Roja Reddy	17
41	219Y5A0117	U.Poojitha	18
42	219Y5A0116	V. Anusha	15

43	209Y1A0434	A Uday Kumar Reddy	14
44	209Y1A0168	M. Ranjith Kumar	15
45	219Y5A0110	Shaik Thakkalla Yunus	13
46	219Y5A0106	J.Vasu	15
47	219Y5A0112	V C Madhu Sai Venkat	14
48	209Y1A0162	A Samson	16
49	209Y1A04F5	Ganjikunta Saritha	17
50	209Y1A0170	Vasantha Pallavi	15
51	209Y1A04F1	S Siva Ruchitha	14
52	219Y5A0101	K.Harindranath	15
53	209Y1A04F6	Kamireddy Jaipal Reddy	14
54	209Y1A04F2	K. Eswar Sai	16

Ryog Down Coordinator(s) HoD CSE

Dr. V. LOKESWARA REDDY M.Tech., Ph.D., Professor & HOD CSE

Professor & HOD CSE
K.S.R.M. College of Engineering (Autonomous)
KADAPA - 516 005.

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED /CERTIFICATE COURSE ON

PYTHON PROGRAMMING FROM 09/05/2022 TO 21/05/2022

ASSESSMENT TEST	Г
ASSESSMENT TES	

Roll Number: Name of the Student:		
Time: 20 Min (Objective Questions)	Max.Mai	rks:20
Note: Answer the following Questions and each question carries one mark. 1. Python is aobject-oriented programming language. A. Special purpose B. General purpose C. Medium level programming language D.All of the mentioned above	[J
2. Amongst the following, who is the developer of Python programming? A. Guido van Rossum B. Denis Ritchie C. Y.C. Khenderakar D. None	[1
3. Amongst which of the following is / are the application areas of Python progration. A. Web Development B. Artificial Intelligence and Machine Learning D. All of the mentioned areas of Python progration.		[
4. Amongst which of the following is / are the Numeric Types of Data Types? A. int B. float C. complex D. All of the mentioned above	Ī	1
5. list, tuple, and range are the of Data Types. A. Sequence Types B. Binary Types C. Boolean Types D. None	[1
6. Float type of data type is represented by the float class. A. True B. False	I]
7. bytes, bytearray, memoryview are type of the data type. A. Mapping Type B. Boolean Type C. Binary Types D. None	Ī	1
8. The type() function can be used to get the data type of any object. A. True B. False	I]
9. Binary data type is a fixed-width string of length bytes? A. True B. False	1	l
10. Varbinary data type returns variable-width string up to a length of max-leng A. TRUE B. FALSE	th bytes?	[
11. Amongst which of the following is / are the logical operators in Python? A. and B. or C. not D. All of the mentioned above	1]
12. Is Python supports exception handling?]]

13. What is the name of the operator ** in Python?	[]
A. Exponentiation B. Modulus C. Floor division D. None of the menti	oned at	oove
14. The % operator returns the	[]
A. Quotient B. Divisor C. Remainder D. None of the mentioned at	ove	
15. Amongst which of the following is / are the method of list?	[]
A. append() B. extend() C. insert() D. All of the mentioned above		
16. The list.pop ([i]) removes the item at the given position in the list?	[]
A. True B. False		
17. The list.index(x[, start[, end]]) is used to	[1
A. Return zero-based index in the list B. Raises a ValueError if there is no such it	em	
C. Both A and B D. None of the mentioned above		
18. Python Dictionary is used to store the data in a format.	.]	1
A. Key value pair B. Group value pair C. Select value pair D. None		
19. The following is used to define a	[]
$\mathbf{d} = \{$		
<key>: <value>,</value></key>		
<key>: <value>,</value></key>		
<key>: <value></value></key>		
A. Group B. List C. Dictionary D. All of the mentioned about	ve	
	o r	1
20. Python Literals is used to define the data that is given in a variable or constant. A. True B. False	<i>:</i> []
A. True D. Taise		

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K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED /CERTIFICATE COURSE ON PYTHON PROGRAMMING FROM 09/05/2022 TO 21/05/2022

ASSESSMENT TEST

Roll Number: 20941-ADUF 3 Name of the Student: U. Dooj Etha

Time: 20 Min (Objective Questions)	Max.Marks:20
Note: Answer the following Questions and each question carries one mark. 1. Python is aobject-oriented programming language.	181/
A. Special purpose B. General purpose	
C. Medium level programming language D.All of the mentioned above	
Diam of the monitoned doop	
2. Amongst the following, who is the developer of Python programming?	[A]
A. Guido van Rossum B. Denis Ritchie C. Y.C. Khenderakar D. None	
3. Amongst which of the following is / are the application areas of Python progra	mming? [O
A. Web Development B. Game Development	
B. Artificial Intelligence and Machine Learning D. All of the mentioned a	bove
4. Amongst which of the following is / are the Numeric Types of Data Types?	101
A. int B. float C. complex D. All of the mentioned above	
71. Int B. Hoat C. complex B. All of the mentioned above	
5. list, tuple, and range are the of Data Types.	[8]
A. Sequence Types B. Binary Types C. Boolean Types D. None	[13]
1 31 2 2 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1	
6. Float type of data type is represented by the float class.	[A]
A. True B. False	[A]
7. bytes, bytearray, memoryview are type of the data type.	[CV]
A. Mapping Type B. Boolean Type C. Binary Types D. None	
9. The true of function can be used to set the date to the	
8. The type() function can be used to get the data type of any object. A. True B. False	[D]
A. True B. Faise	
9. Binary data type is a fixed-width string of length bytes?	1.0.1
A. True B. False	1 17 1.
A. True B. Tuibe	
10. Varbinary data type returns variable-width string up to a length of max-leng	th bytes? [
A. TRUE B. FALSE	
	/
11. Amongst which of the following is / are the logical operators in Python?	IDI/I
A. and B. or C. not D. All of the mentioned above	
12. Is Python supports exception handling?	[B]
A. Yes B. No	

13. What is the name of the operator ** in Python? A. Exponentiation B. Modulus C. Floor division D. None of the mention	oned above
14. The % operator returns the A. Quotient B. Divisor C. Remainder D. None of the mentioned above	[D]
15. Amongst which of the following is / are the method of list? A. append() B. extend() C. insert() D. All of the mentioned above	101/
16. The list.pop ([i]) removes the item at the given position in the list? A. True B. False	[0]
17. The list.index(x[, start[, end]]) is used to A. Return zero-based index in the list C. Both A and B B. Raises a ValueError if there is no such it D. None of the mentioned above	[CV]
18. Python Dictionary is used to store the data in a format. A. Key value pair B. Group value pair C. Select value pair D. None	141
19. The following is used to define a	101/
d = {	
<pre><key>: <value> }</value></key></pre>	
A. Group B. List C. Dictionary D. All of the mentioned abo	ve
20. Python Literals is used to define the data that is given in a variable or constant? A. True B. False	'I A I/

14/20 95

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED /CERTIFICATE COURSE ON PYTHON PROGRAMMING FROM 09/05/2022 TO 21/05/2022

ASSESSMENT TEST

Roll Number: 2049 1-1041-6 Name of the Student: Jaip	a Keololy
Time: 20 Min (Objective Questions)	Max.Marks:20
Note: Answer the following Questions and each question carries one mark. 1. Python is aobject-oriented programming language. A. Special purpose B. General purpose C. Medium level programming language D.All of the mentioned above	189
2. Amongst the following, who is the developer of Python programming? A. Guido van Rossum B. Denis Ritchie C. Y.C. Khenderakar D. None	[]
3. Amongst which of the following is / are the application areas of Python progra A. Web Development B. Game Development D. All of the mentioned a	
4. Amongst which of the following is / are the Numeric Types of Data Types? A. int B. float C. complex D. All of the mentioned above	[C.]
5. list, tuple, and range are the of Data Types. A. Sequence Types B. Binary Types C. Boolean Types D. None	[#]
6. Float type of data type is represented by the float class. A. True B. False	[Ał
7. bytes, bytearray, memoryview are type of the data type. A. Mapping Type B. Boolean Type C. Binary Types D. None	101
8. The type() function can be used to get the data type of any object. A. True B. False	[A]
9. Binary data type is a fixed-width string of length bytes? A. True B. False	[A]
10. Varbinary data type returns variable-width string up to a length of max-leng A. TRUE B. FALSE	th bytes? [C ,]
11. Amongst which of the following is / are the logical operators in Python? A. and B. or C. not D. All of the mentioned above	101/
12. Is Python supports exception handling? A. Yes B. No	[B.]

13. What is the name of the operator ** in Python? A. Exponentiation B. Modulus C. Floor division D. None of the mention	oned above
14. The % operator returns the A. Quotient B. Divisor C. Remainder D. None of the mentioned above	I D. I
15. Amongst which of the following is / are the method of list? A. append() B. extend() C. insert() D. All of the mentioned above	101
16. The list.pop ([i]) removes the item at the given position in the list? A. True B. False	[0]
17. The list.index(x[, start[, end]]) is used to A. Return zero-based index in the list C. Both A and B B. Raises a ValueError if there is no such it D. None of the mentioned above	
18. Python Dictionary is used to store the data in a format. A. Key value pair B. Group value pair C. Select value pair D. None	IAI
19. The following is used to define a	101/
<pre>d = {</pre>	
A. Group B. List C. Dictionary D. All of the mentioned abo	ve
20. Python Literals is used to define the data that is given in a variable or constant? A. True B. False	PI A IV

13/2000

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED /CERTIFICATE COURSE ON

PYTHON PROGRAMMING FROM 09/05/2022 TO 21/05/2022 ASSESSMENT TEST

Roll Number: 20941A04F5 Name of the Student: C, Naw	een
Time: 20 Min (Objective Questions)	Max.Marks:20
Note: Answer the following Questions and each question carries one mark. 1. Python is aobject-oriented programming language. A. Special purpose B. General purpose C. Medium level programming language D.All of the mentioned above	[8.]
2. Amongst the following, who is the developer of Python programming? A. Guido van Rossum B. Denis Ritchie C. Y.C. Khenderakar D. None	[A:] V
3. Amongst which of the following is / are the application areas of Python progra A. Web Development B. Game Development D. All of the mentioned a	
4. Amongst which of the following is / are the Numeric Types of Data Types? A. int B. float C. complex D. All of the mentioned above	[D']
5. list, tuple, and range are the of Data Types. A. Sequence Types B. Binary Types C. Boolean Types D. None	[D·]
6. Float type of data type is represented by the float class. A. True B. False	[B·]
7. bytes, bytearray, memoryview are type of the data type. A. Mapping Type B. Boolean Type C. Binary Types D. None	[C]
8. The type() function can be used to get the data type of any object. A. True B. False	[A]
9. Binary data type is a fixed-width string of length bytes? A. True B. False	[A-] /
10. Varbinary data type returns variable-width string up to a length of max-leng A. TRUE B. FALSE	th bytes? [B.]
11. Amongst which of the following is / are the logical operators in Python? A. and B. or C. not D. All of the mentioned above	[C.]
12. Is Python supports exception handling? A. Yes B. No	[C.]

13. What is the name of the operator ** in Python? A. Exponentiation B. Modulus C. Floor division D. None of the mention	A. I ded above
14. The % operator returns the A. Quotient B. Divisor C. Remainder D. None of the mentioned above	<i>B</i> ∙] ′e
15. Amongst which of the following is / are the method of list? A. append() B. extend() C. insert() D. All of the mentioned above	DI
16. The list.pop ([i]) removes the item at the given position in the list? A. True B. False	A']
17. The list.index(x[, start[, end]]) is used to A. Return zero-based index in the list C. Both A and B B. Raises a ValueError if there is no such item D. None of the mentioned above	c 1
18. Python Dictionary is used to store the data in a format. A. Key value pair B. Group value pair C. Select value pair D. None	B·1
19. The following is used to define a	CIV
<pre>d = {</pre>	
A. Group B. List C. Dictionary D. All of the mentioned above	
20. Python Literals is used to define the data that is given in a variable or constant? [A. True B. False	A·I

16/20

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED /CERTIFICATE COURSE ON

PYTHON PROGRAMMING FROM 09/05/2022 TO 21/05/2022

Roll Number: 219 V 5 A 0155 Name of the Student: B. Halyani

	ne of the Student.		
Time: 20 Min	Objective Questions)	Max.Marl	ks:20
Note: Answer the following Questions and			
1. Python is aobject-oriented program	ming language.	IB] ້
A. Special purpose B. General purpo	ose		
C. Medium level programming language	D.All of the mentioned above		
		. 0	. /
2. Amongst the following, who is the develop		IH] /
A. Guido van Rossum B. Denis Ritchie	C. Y.C. Khenderakar D. None		
3. Amongst which of the following is / are th	e application areas of Python progra	mming?	[(2)]
A. Web Development	B. Game Development		
B. Artificial Intelligence and Machine Lea	에 있는 사람들은 마다 그들은 이 보는 사람들은 사람들이 되었다. 그런 그리고 보는 사람들은 사람들이 되었다면 보다 되었다. 그리고 하는 사람들은 사람들은 사람들이 되었다면 보다 되었다. 그런 사람들	bove	
			/
4. Amongst which of the following is / are th		ID	1/
A. int B. float C. complex	D. All of the mentioned above		
5 P-4 4-1 1	P		
5. list, tuple, and range are the of Data T		IB]
A. Sequence Types B. Binary Types	C. Boolean Types D. None		
6. Float type of data type is represented by t	the float class	r A	1
A. True B. False	Mout Class.	1 11	,
			/
7. bytes, bytearray, memoryview are type of	f the data type.	1 C]
A. Mapping Type B. Boolean Type	e C. Binary Types D. None		
		Λ	/
8. The type() function can be used to get the	data type of any object.	[H]	1
A. True B. False			
9. Binary data type is a fixed-width string of	flangth bytes?	0 1	1.
A. True B. False	riength bytes:	1 H	I. /
A. The B. Paise			
10. Varbinary data type returns variable-wi	idth string up to a length of max-leng	th bytes?	1 B 1
A. TRUE B. FALSE	8 1	, ,	
			/
11. Amongst which of the following is / are t		D	1
A. and B. or C. not	D. All of the mentioned above		,
12 L D 41		I D	11
12. Is Python supports exception handling?		1 H	1 ~

13. What is the name of the operator ** in Python? A. Exponentiation B. Modulus C. Floor division D. None of the mentioned above	
14. The % operator returns the A. Quotient B. Divisor C. Remainder D. None of the mentioned above	
15. Amongst which of the following is / are the method of list? A. append() B. extend() C. insert() D. All of the mentioned above	
16. The list.pop ([i]) removes the item at the given position in the list? A. True B. False	_
17. The list.index(x[, start[, end]]) is used to A. Return zero-based index in the list C. Both A and B B. Raises a ValueError if there is no such item D. None of the mentioned above	
18. Python Dictionary is used to store the data in a format. A. Key value pair B. Group value pair C. Select value pair D. None	
19. The following is used to define a	
<pre>d = {</pre>	
A. Group B. List C. Dictionary D. All of the mentioned above	
20. Python Literals is used to define the data that is given in a variable or constant? [A. True B. False	

15/20

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED /CERTIFICATE COURSE ON

PYTHON PROGRAMMING FROM 09/05/2022 TO 21/05/2022
ASSESSMENT TEST

Roll Number: 2	1995/1016	Name of	the Student: V 5	Amino		_
Time: 20 Mir	1	(Obje	ctive Questions)		Max.Marks	:20
1. Python is a	지하는 것 같아요. 하지 않아요 하지 않아요. 이름을 하게 되었다면 하지 않아 보는데 다	cogramming	question carries one g language.	mark.	IBL	
C. Medium level	programming lan	guage	D.All of the mention			/
			f Python programmi C. Y.C. Khenderaka		[4]	
A. Web Develop			B. Game Dev B. All of the	velopment		DJ
4. Amongst which of A. int B. float			meric Types of Data D. All of the mention		[C]	
5. list, tuple, and ran A. Sequence Typ			s. C. Boolean Types	D. None	(A)	
6. Float type of data A. True	type is represent B. False	ed by the fl	oat class.		[A]	
7. bytes, bytearray, A. Mapping Typ	memoryview are e B. Boolea			D. None	l Cl	
8. The type() function A. True	on can be used to B. False	get the data	a type of any object.		1 D,1	1
9. Binary data type A. True	is a fixed-width so B. False	tring of leng	gth bytes?		IAI	
10. Varbinary data A. TRUE	type returns vari B. FALSE	able-width	string up to a length	of max-len	gth bytes? [C
11. Amongst which A. and		s / are the lo	ogical operators in Py D. All of the mentio		[0]	
12. Is Python suppo	rts exception han	dling?			181	

A. Exponentiation B. Modulus C. Floor division D. None of the mention	oned above
14. The % operator returns the A. Quotient B. Divisor C. Remainder D. None of the mentioned above	[O]
15. Amongst which of the following is / are the method of list? A. append() B. extend() C. insert() D. All of the mentioned above	101
16. The list.pop ([i]) removes the item at the given position in the list? A. True B. False	101
17. The list.index(x[, start[, end]]) is used to A. Return zero-based index in the list C. Both A and B B. Raises a ValueError if there is no such its D. None of the mentioned above	[CV
18. Python Dictionary is used to store the data in a format. A. Key value pair B. Group value pair C. Select value pair D. None	17
19. The following is used to define a	[]/
<pre>d = {</pre>	
<key>: <value> }</value></key>	
A. Group B. List C. Dictionary D. All of the mentioned above	/e
20. Python Literals is used to define the data that is given in a variable or constant? A. True B. False	[A]/

Top 10 Advance Python Concepts That You Must Know

1.Python map() function

map() function returns a map object(which is an iterator) of the results after applying the given function to each item of a given iterable (list, tuple etc.)

Syntax:

map(fun, iter)

Parameters:

fun: It is a function to which map passes each element of given iterable.

iter: It is a iterable which is to be mapped.

NOTE: You can pass one or more iterable to the map() function.

Returns:

Returns a list of the results after applying the given function

to each item of a given iterable (list, tuple etc.)

NOTE: The returned value from map() (map object) then can be passed to functions like list() (to create a list), set() (to create a set).

CODE 1

 $\mbox{\#}$ Python program to demonstrate working $\mbox{\#}$ of map. $\mbox{\#}$ Return double of n

def addition(n):

return n + n

We double all numbers using map()

numbers = (1, 2, 3, 4)

result = map(addition, numbers)

print(list(result))

Output:

[2, 4, 6, 8]

CODE 2

We can also use <u>lambda expressions</u> with map to achieve above result.

Double all numbers using map and lambda

numbers = (1, 2, 3, 4)

```
result = map(lambda x: x + x, numbers)
print(list(result))
Output:
[2, 4, 6, 8]
CODE 3
# Add two lists using map and lambda
numbers1 = [1, 2, 3]
numbers2 = [4, 5, 6]
result = map(lambda x, y: x + y, numbers1, numbers2)
print(list(result))
Output:
[5, 7, 9]
CODE 4
# List of strings
1 = ['sat', 'bat', 'cat', 'mat']
# map() can listify the list of strings individually
test = list(map(list, 1))
print(test)
Output:
 [['s', 'a', 't'], ['b', 'a', 't'], ['c', 'a', 't'], ['m', 'a', 't']]
```

Python Itertools

method

```
# Python program to demonstrate
# iterator module
import operator
import time
# Defining lists
L1 = [1, 2, 3]
L2 = [2, 3, 4]
# Starting time before map
# function
t1 = time.time()
# Calculating result
a, b, c = map(operator.mul, L1, L2)
# Ending time after map
# function
t2 = time.time()
 # Time taken by map function
print("Result:", a, b, c)
print("Time taken by map function: %.6f" %(t2 - t1))
 # Starting time before naive
```

```
t1 = time.time()

# Calculating result using for loop

print("Result:", end = " ")

for i in range(3):

   print(L1[i] * L2[i], end = " ")

# Ending time after naive

# method

t2 = time.time()

print("\nTime taken by for loop: %.6f" %(t2 - t1))
```

Output:

Result: 2 6 12

Time taken by map function: 0.000005

Result: 2 6 12

Time taken by for loop: 0.000014

In the above example, it can be seen that the time taken by the map function is approximately half than the time taken by for loop. This shows that itertools are fast, memory-efficient tools.

Different types of iterators provided by this module are:

- Infinite iterators
- Combinatoric iterators
- Terminating iterators

Infinite iterators

Iterator in Python is any Python type that can be used with a 'for in loop'. Python lists, tuples, dictionaries, and sets are all examples of inbuilt iterators. But it is not necessary that an iterator object has to exhaust, sometimes it can be infinite. Such types of iterators are known as **Infinite iterators**.

Python provides three types of infinite iterators:

count(start, step): This iterator starts printing from the "start" number and prints infinitely.
If steps are mentioned, the numbers are skipped else step is 1 by default. See the below example for its use with for in loop.
 Example:

Python3

```
# Python program to demonstrate
# infinite iterators
  import itertools
  # for in loop
for i in itertools.count(5, 5):
    if i == 35:
        break
    else:
        print(i, end =" ")
Output:
```

5 10 15 20 25 30

cycle(iterable): This iterator prints all values in order from the passed container. It restarts printing from the beginning again when all elements are printed in a cyclic manner. Example 1:

Python3

```
# Python program to demonstrate
# infinite iterators
  import itertools
  count = 0
  # for in loop
for i in itertools.cycle('AB'):
    if count > 7:
        break
```