

Department of Computer Science and Engineering
Faculty of Engineering and Technology, Jain University

Report

National Workshop on Python for Beginners

On behalf of the department of Computer Science and Engineering, F.E.T, I would like to **thank respected Dr. Narayanaswamy, H.O.D CSE, Hon. Director Dr. Hariprasad.S.A, F.E.T** for organizing and conducting this **workshop on 10th May 2020 from 9:00am to 4:30pm in online Zoom mode**. **Thanks to all faculty and students of computer science and engineering department**. Special thanks to **Prof. Gadug Sudhamsu, Assistant Professor, CSE and Mr. Ramesh, Office Assistant, CSE** for their support in conducting this workshop. **The resource person for this workshop was Prof. Deepa.T.P., Assistant Professor, Dept. of CSE and Prof. Rajanishree.M., Assistant Professor, Dept. of CSE .**

The free one-day workshop on “Python for Passionate Programmers” was intended for **all age group participants with/without programming background**. The main objective of this workshop is to create awareness and interest about scripting among school children. This will indirectly motivate them towards innovation and project development at the early stage.

After completing this workshop, students will be able to-

- 1. Use basic concepts of python programming like variables, operators, keywords, identifiers**
- 2. Analyze the application of control statements and conditional statements.**
- 3. Implement the python program using standard and user-defined functions.**
- 4. Develop python program using core data types.**

The workshop included four sessions. The details of session as given below-

Session Details	Timings	Topics
Session 1	9:00am to 11:00am	Introduction and Installation, Basic syntax, Variables, operators
Short Break	11:00am to 11:10am	
Session2	11:10am to 1:00pm	Decision making, loops, functions
Lunch Break	1:00pm to 2:00pm	
Session 3	2:00 pm to 3:00 pm	Lists, strings, tuples, dictionary
Short Break	3:00pm to 3:15pm	
Session 4	3:15 pm to 4:15pm	Evaluation (MCQ)

Evaluation: online MCQ test for 50 Marks in 60 minutes duration.

30 Questions – 1 Point each

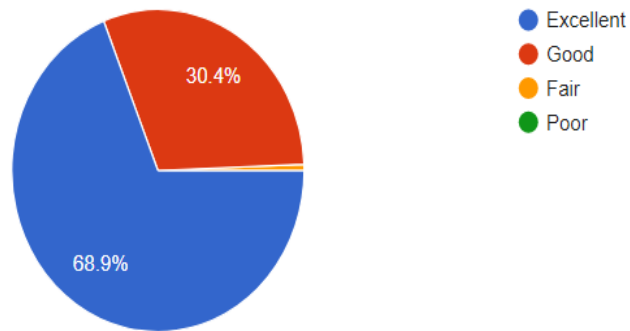
10 Questions- 2 Points each

There were registrations across the globe. Students were provided E-certificate through email. The participation details as mentioned in the Appendix-1.

The feedback analysis is as shown below.

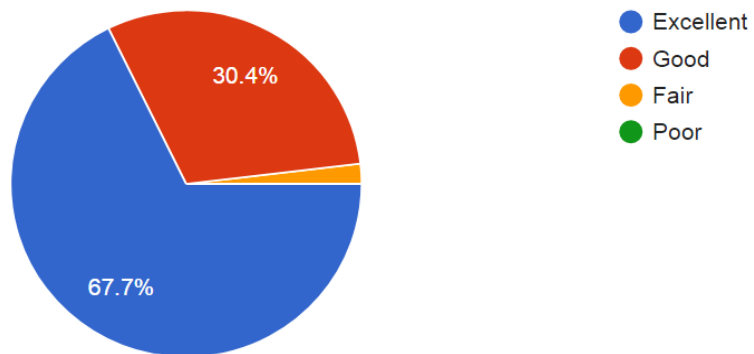
Relevance of Program to your requirements

322 responses



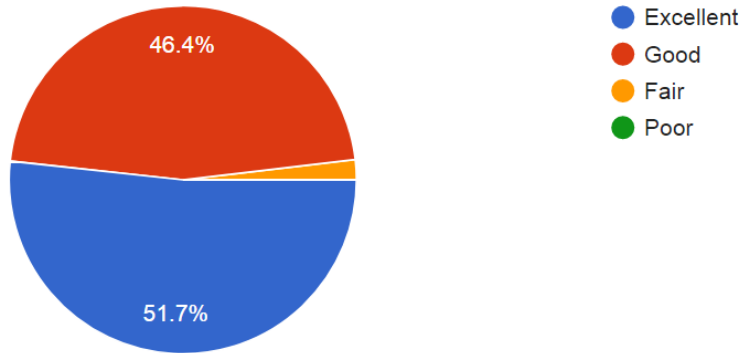
Learning Points

322 responses



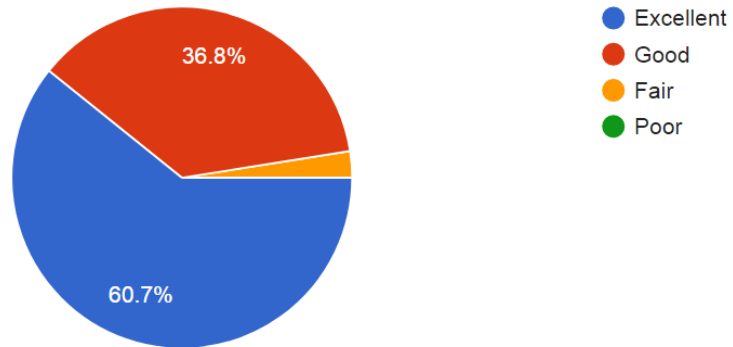
Possibility of implementing these concepts immediately

321 responses



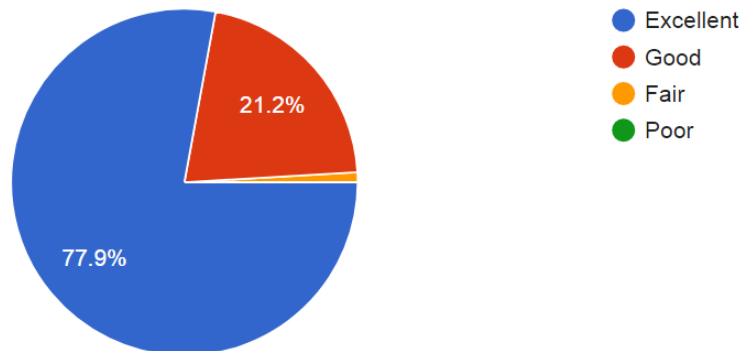
Workshop Arrangements

321 responses



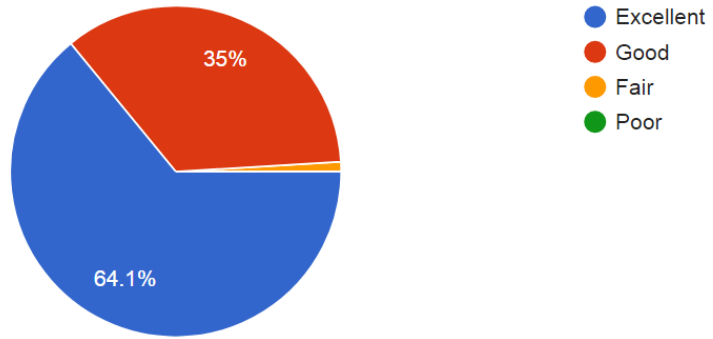
Faculty performance

321 responses

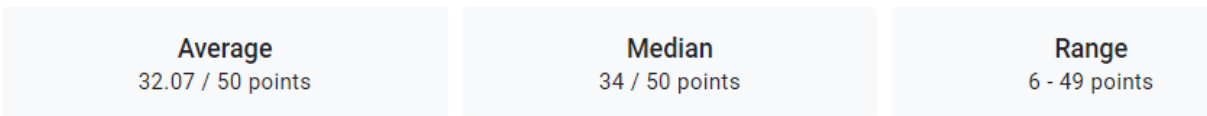


Overall Usefulness

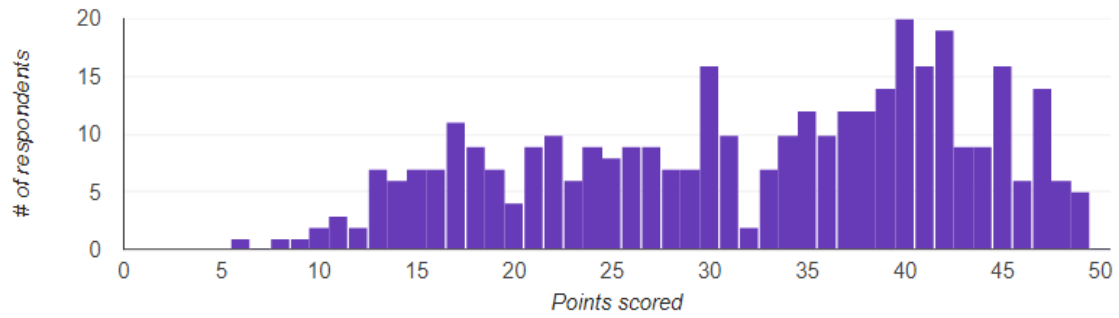
320 responses



The grading analysis is as given below-



Total points distribution



Workshop Outcomes attainment

Details of Outcome mapping is given in Appendix-1. The following table provides attainment of workshop outcomes.

Workshop Outcomes	Outcome 1	Outcome 2	Outcome 3	Outcome 4
Current Workshop (%age)	75.71904	53.04269	62.6158	72.2752
Previous Similar Workshop (%age)	65.36585	50.2439	82.11382	65.04065
Improvement (%age)	10.35319	2.79879	-19.498	7.23455

Gap Analysis and Further improvements (Action Points)

1. The participants were of the all age group. They were from technical, nontechnical, medical Doctors, Business analysts, Accounting, mechanical, metallurgy, data science, physics etc. background. Some of them lack the basics of programming. The workshop covered little basic to understand Python programming.
2. There is an improvement in performance related to basic concepts of python, core data types looping statement compared to previous workshop as we modified some examples and the way of delivering it.
3. There is drastic reduction in achieving outcome 3 related to functions, as participants required more time to understand and practice the concepts during session.

ZOOM Session details

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Today 08:30 AM	Python Programming for Passionate Programmers by Pr of Deepa T.P. ⓘ	971 6803 6090	Start Delete

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Start Time ▾	Topic ▾	Meeting ID	
Sat, May 9 08:00 PM	Python Programming for Passionate Programmers by Rajanishree	Pr914 6006 1679	Start Delete
Sun, May 10 08:30 AM India			

Appendix-1

Participants Registration Details

1	MUKESH SINGH	93	VINAYKARTHIK BC	185	J.SANTOSHI KUMARI	277	SANTHOSH G
2	VANITHA M	94	PANKAJA R	186	SATHIYARAJ . R	278	PAVITRA
3	MANOJKUMAR BOLLINI	95	SURAVI ANILKUMAR	187	A ESAKKIAMMAL	279	ROOPA NAYKAR
4	SIVA SUBRAMANIAN K	96	NEHA MANGLA	188	DR G SUVARNA KUMAR	280	M.ARVINDHAN
5	PEYYALA BALAKRISHNA	97	RASHI GUPTA	189	TEJAS. KA	281	SUSHIL CHAUDHARI
6	ABHALE BABASAHEB ANNASAHEB	98	NVDP MURTHY	190	MALLEGOWDA M	282	VUDDURU BHARATHI
7	LAKSHMI B	99	APOORVA A	191	PREM PRAKASH AGRAWAL	283	PATIL EKAJ ARUN
8	SANGAMESH H	100	SIRI A	192	S PRIYA DARSHINI	284	JILLA VINITHA
9	BASAVARAJU N M	101	WAKCHAURE SHIVAM VAIBHAV	193	ARELLI SWATHI	285	DR. D. DEVIKANNIGA
10	S. SRIDHAR	102	KANTHARAJU V	194	KALA CHANDRASHEKHAR L	286	STHANIKAM SRIKANTA DEEKSHIT
11	HASINI	103	CHAITRA M	195	RAHUL KUMAR	287	AMBATI NAGASREE
12	SANKAR	104	KRISHNA KISHORE THOTA	196	THIRUPATHI M	288	RAJESH UDUPI
13	WALUNJ YASHASHREE	105	PROF. VIDYARANI KATIGAR	197	SHIRIN FATHIMA J	289	MR. SHIVANANDASWAMY V MAHAPURUSH
14	MUNNA KUMAR	106	R V L S N SASTRY	198	STEPHEN A	290	DR SURESH VISHNUDAS LIMKAR
15	BALASUBRAMANYAM N	107	VIKRAM GAJULA	199	RANJITHA .T	291	PRATHIMA MAHAPURUSH
16	CHINU	108	DR M. SENTHILKUMAR	200	UMA SHARMA	292	KRISHNAKUMAR SUNDAR
17	PROF. SIDDHARTH BHATKANDE	109	PARIKSHITH T G	201	AKASH K	293	GOLI ANITHA
18	D.K.MUTHUMANICKAM	110	KAMMARA SAI CHARAN	202	SARALA N R	294	NAIK SHREYASH MANOHAR

19	SWARAJYA LAKSHMI BOREDDY	111	JAGADEESHWAR PODISHETTI	203	NAVEEN KOLLA	295	VENKATA RAMARAO MUTYALA
20	VINAYAK HONNUNGAR	112	AYUSHI BOLIA	204	MANJULA H S	296	MANISH KUMAR GUPTA
21	PRIYANK S PATEL	113	V BALARAJU	205	KALAHASTHI RADHIKA	297	Y.RAVI TEJA
22	TRIVENI BASARKOD	114	GAIKWAD RUTUJA NAVNATH	206	VEGURU GAYATRI	298	DR. S C LINGAREDDY
23	PREETHAM G.S	115	PRAGATI S RAO	207	S. LAVANYA	299	BANDI SIREESHA
24	SMITA RANI SAHU	116	OMPRAKASH B	208	SUSHMA K	300	VAIBHAV C GANDHI
25	SOWMYA	117	SUMATI BARAL	209	ANISH K	301	RAGHAVENDRA PATANGAY
26	GURVINDER	118	ALTON FRANCIS D'SOUZA	210	VARSHA SISAUDIA	302	JEDGULE USHA BHARAT
27	KANUMALLA GOPI KALYAN	119	VAISAKHNATH S	211	SIRIKONDA.ANOOSHA	303	SATPAL
28	RAMYA PALLI	120	SUMIT AGARWAL	212	MANTHAN MAHENDRAKUMAR CHAVDA	304	PUSHPA LATHA R G
29	ANEEL NARAYANAPUR	121	SATYAJEE SRIVASTAVA	213	RAJITHA B	305	DR BHAGYA R
30	DR. SUMA.T	122	R.SANKAR	214	KAMESWARI GUMMADI	306	KERULKAR KOMAL RAJENDRA
31	PEESALA ILANNA	123	M.MADHU LATHA	215	SWAPNA CHUNCHU	307	POOJA KAILASCHAD JAIN
32	VIJAY ARUN CHAUDHARI	124	D . SAI NIKHILESHZ	216	ARYA BIWARE	308	DR. SUDHANSHU KUMAR JHA
33	DEEPIKA SAHU	125	HARSHIT SALECHA	217	MADHUSHREE.M	309	P.HARSHAVARDHINI
34	S.DEVAKI	126	DR. HARISH S GUJJAR	218	S.KUPPAN	310	KULDEEP PATHAK
35	PAMPATI NAGARAJU	127	DR. A. AMBETH RAJA	219	S G VAISHNAVI	311	DEEPIKA S
36	HARSHITHA GS	128	ABHISHEK GURU	220	G SAI SAGAR	312	LATHARANI T R
37	SHARMILA DEVI M	129	PRAVEEN KUMAR A P	221	SEETHALAKSHMI D	313	SRINIDHI K.S
38	SANJAY G M	130	DR. MURUGAN KRISHNAMOORTHY	222	S RADHIKA	314	BASAVARAJ A N
39	REVANNA R	131	KRUPA RASANE	223	M.JANCYPRIYA	315	SIRI A

40	SONAWANE CHHAYA NARAYAN	132	K.SHREE JYOTHI	224	SAYI PRIYA S	316	PARESH PAREKH
41	KAVITHA P S	133	BRUNDHA P	225	PRAKASHA G	317	GADIPELLI SAHITHI
42	BASAVARAJ K MURAGOD	134	JEEVAN D R	226	POOJA.M.L	318	AMANCHI ARUNA
43	KAVYA PALLI	135	KSHITIZE MANGLA	227	DEEPASHREE AMARNATH	319	POOJA N S
44	VIJAYARAJU.P	136	MUSHAM SWETHA	228	AMARNATH SRINIVASARAO	320	KISHORE KOPPARAPU
45	CHAUDHARI RUSHIKESH ARUN	137	SRINIVASARAO GORAPALLI	229	M SADHASIVAM	321	KUSH RAJ SINGH
46	MAHIMA PATEL	138	SRISABARIMANI K	230	K.SANTHOSHI RUPA	322	MADHAVI V
47	JYOTHI DONGA	139	RAMESH SP	231	PALEM CHANDRAKALA	323	VAISHNAVI ARUN DESHMUKH
48	VIJAYALAXMI R PATIL	140	CHETAN R	232	POOJA PATHAK	324	RASHMI AGARWAL
49	V SANTHI	141	SONAL SHRIKRUSHNA RANE	233	SIVASAKTHI S	325	AKSHAY KAKAD
50	ARAVINDA NAIK S G	142	NITAL SUNIL PATIL	234	MANU Y M	326	KAKAD BHARTI BHIVSEN
51	KUSHANTH M	143	ARATHI B N	235	AMIRTHA PREEYA	327	K.GOWRI SHANKAR
52	AMGOTH ASHOK KUMAR	144	RAJESHWARI G L	236	DR RASHMI SONI	328	MATHAM RAMESH
53	TANESH RAJENDRA SHARMA	145	K. MEENAKSHI MRUDALASHREE	237	MRS GITANJALI SINHA	329	THORAT KAVERI SUDAM
54	YASH CHETAN AGRAWAL	146	MS. S. KARTHIKEYENI	238	NAMRATA	330	MUMMADI SAI SANDEEP
55	SMITA C CHETTI	147	RAJDEO DNYANDA SANJEEV	239	SUJAY GEJJI	331	NIKITA TATERAO AWARE
56	ABHIRAM	148	SHYAMSUNDER JANNU SOLOMAN	240	SUBHAM SARDA	332	ASHWINI BAGADE
57	SHEETAL BINOD KUMAR PRASAD	149	ADARSHA S	241	PENUBARTHI RADHIKA	333	ALIKAPATI KEERTHI PRIYA
58	SWETHA RANI.L	150	DR. ASHA AMBHAIKAR	242	BHARGAV.S	334	RAMDAS KAPILA
59	HARSHITHA PASEM	151	YASHAS K VENKAT	243	KANCHI SUKEERTHI	335	DR. ANEESHKUMAR A. S.

60	DR.J.SENTHIL KUMAR	152	PILLA MOHAN GANESH	244	KOMAL BALSHEB NAWALE	336	D.SAI NIKHILESH
61	VARUN P SARVADE	153	DR G MANJULA	245	YASH PREETH NIJALINGE	337	MOHAMMED IMRAN SHAIK
62	NAGARAJA BODRAVARA	154	VYDARSI SITA RAMA PRASAD	246	S.VIJITHA	338	VENKATESH.M
63	S.VIMAL	155	ANWESHA DAS	247	A. PAVANI	339	PRATISHTHA KUMEKAR
64	UNDE KOMAL BABASAHEB	156	SARA SALEEMA	248	ARCHANA K V	340	SRINIVASAN.N
65	GUNVEER SINGH	157	ROOPA MJ	249	CHANDANA D C	341	VIKAS GUPTA
66	MANJUNATHA BALLULI	158	NISHITHA MARIAN R J	250	ANJALI SRIVASTAVA	342	DR.P.KARTHIKEYAN
67	ANKITH KUMAR	159	ADITHYA M.N	251	H. THANGKHANHAU	343	SASHIKUMAR S
68	SHILPA N	160	NAGUGARI MUNISANKAR	252	BASAVARAJ H J	344	SYED HYDER
69	WAGH MUKUND RAJENDRA	161	ADITI SRIVASTAVA	253	YOGESH M NIJALINGE	345	ATHIRA P
70	RESHMA SHETTY	162	DR G SANDHYA DEVI	254	KRITI	346	CHALAMALASETTY SARVANI
71	SATHYA PRAVEEN D	163	PRAVALLIKA MIDITHIPATI	255	DR. SANJEEV KUMAR	347	CHINMAYA NAYAK
72	VENKATESH P	164	NARASIMHA N	256	SYAMA R	348	DR.R.NIRMALKUMAR
73	HARSHITHA GS	165	BASAMMA UMESH PATIL	257	VALLEM RANADHEER REDDY	349	UMESH PINJARKAR
74	S KOUSTUBHA BHARADVAJ	166	VENKATESH PRASAD D	258	MANYA M	350	J DAVID SUKEERTHI KUMAR
75	PARAM VIJAY KUMAR	167	MANASA B S	259	BODDEDA GANESH	351	DR. M PALA PRASAD REDDY
76	LAKHBIR KAUR	168	SANJAY S	260	B PHANINDRA KUMAR	352	LAKSHMI PRASANNA BANDI
77	RISWITHA	169	SYED ATHIKA SULTANA	261	GADDAM ISWARYA	353	DR. KULDEEP P. PAWAR
78	NIRANJAN.R	170	TRIVENI BASARKOD	262	PRAKRITI	354	V.BINDUSREE
79	P B SAI RAMANA	171	DR.G.THAMIZHENDHI	263	SWETA GUPTA	355	CHANDRA C

80	SHASHI KUMAR K	172	BUDATI KIRANMAYEE	264	PATEL VRAJESHKUMAR RAJENDRABHAI	356	SHIKHA ARYA
81	SIDHARTHA K	173	MRS. BHAWNA JANGHEL	265	GAURI SUHAS MARDIKAR	357	RAHUL RATHORE
82	ANURADHA C.J.	174	RAJATHA	266	IMRANULLAH KHAN	358	MANJUSHA ANANT SHINDE (BHANDWALKAR)
83	BHUWAD PAYAL SURENDRA	175	PUSKURI ARUN	267	PUNITHARAJA K	359	VIVEK GHAI
84	D VENKATA SIVA REDDY	176	DEVULAPALLI SHYAM PRASAD	268	NANDYALA SREERAMULAREDDY	360	KAMAL KUMAR GOLA
85	BHAGYASRI PAVULURI	177	SINDHOORA V	269	SAPTARSHI DAS	361	VIJAYA PINJARKAR
86	RAJESHWARI N	178	SAVITRI KULKARNI	270	PROF. PRAVEEN CHITTI	362	DHINESH KUMAR A
87	KARTHIK R	179	DR.SONALI RIDHORKAR	271	WALUNJ YASHASHREE	363	NAGARAJ P
88	PATALE PAVAN KUMAR	180	KISHOR DEVIDAS PAKHALE	272	N.SIVANAGAMANI	364	MANOJ KUMAR DEWTWAL
89	GOPAL VERMA	181	SIDHARTH BAJPAI	273	SHREYAS N R	365	NAMRATA SINGH
90	CHIRRA ANIL	182	ANJANAYYA S	274	GOUTAM KUMAR SAHOO	366	I PHANI RAJA
91	NAMRATA SINGH	183	ANUSHA M	275	ARUN RAJ S R	367	DR. FAROOQ SUNAR MAHAMMAD
92	SIDHARTH BAJPAI	184	P. GOPICHAND	276	BHAKTI BELHEKAR		

Workshop outcomes mapping (MCQ Test)

Sl. No.	Questions	Points allotted	Outcome mapping	Correct responses (out of 367)	score in %
1	Is Python case sensitive when dealing with identifiers? a) yes b) no c) machine dependent d) none of the mentioned	1	1	326	88.83
2	Which of the following is an invalid variable? a) my_string_1 b) 1st_string c) foo d) _	1	1	281	76.57
3	Which of the following is not a keyword? a) eval b) assert c) nonlocal d) pass	1	1	223	60.77
4	What is the answer to this expression, 22 % 3 is? a) 7 b) 1 c) 0 d) 5	1	1	300	81.75
5	Mathematical operations can be performed on a string. a) True b) False	1	1	254	69.21
6	Operators with the same precedence are evaluated in which manner? a) Left to Right b) Right to Left c) Can't say d) None of the mentioned	1	1	314	85.56
7	Which of the following is an invalid statement? a) abc = 1,000,000 b) a b c = 1000 2000 3000 c) a,b,c = 1000, 2000, 3000 d) a_b_c = 1,000,000	1	1	269	73.3
8	What will be the output of the following Python code? True = False while True: print(True) break a) True b) False c) None d) none of the mentioned	1	2	155	42.24

9	<p>What will be the output of the following Python code?</p> <pre>x = ['ab', 'cd'] for i in x: i.upper() print(x)</pre> <p>a) ['ab', 'cd'] b) ['AB', 'CD'] c) [None, None] d) none of the mentioned</p>	1	2	188	51.23
10	<p>What will be the output of the following Python code?</p> <pre>i = 2 while True: if i%3 == 0: break print(i) i += 2</pre> <p>a) 2 4 6 8 10 ... b) 2 4 c) 2 3 d) error</p>	1	2	216	58.86
11	<p>What will be the output of the following Python code?</p> <pre>i = 1 while True: if i%3 == 0: break print(i) i += 1</pre> <p>a) 1 2 b) 1 2 3 c) error d) none of the mentioned</p>	1	2	197	53.68
12	<p>What will be the output of the following Python code?</p> <pre>i = 1 while True: if i%007 == 0: break print(i) i += 1</pre> <p>a) 1 2 3 4 5 6 b) 1 2 3 4 5 6 7 c) error d) none of the mentioned</p>	1	2	183	49.87

13	<p>What will be the output of the following Python code?</p> <pre>i = 1 while False: if i%2 == 0: break print(i) i += 2</pre> <p>a) 1 b) 1 3 5 7 ... c) 1 2 3 4 ... d) none of the mentioned</p>	1	2	192	52.32
14	<p>Which of the following is a conditional looping statement? If break continue while</p>	1	2	214	58.32
15	<p>Which keyword is used for function?</p> <p>a) Fun b) Define c) Def d) Function</p>	1	3	310	84.47
16	<p>What will be the output of the following Python code?</p> <pre>def sayHello(): print('Hello World!') sayHello() sayHello()</pre> <p>a) Hello World! Hello World! b) 'Hello World! 'Hello World! c) Hello Hello d) None of the mentioned</p>	1	3	266	72.48
17	<p>Which of the following functions is a built-in function in python?</p> <p>a) seed() b) sqrt() c) factorial() d) print()</p>	1	3	249	67.85
18	<p>What will be the output of the following Python expression?</p> <pre>round(4.5676,2)?</pre> <p>a) 4.5 b) 4.6 c) 4.57 d) 4.56</p>	1	3	252	68.67

19	<p>What will be the output of the following Python function?</p> <pre>import math abs(math.sqrt(25))</pre> <p>a) Error b) -5 c) 5 d) 5.0</p>	1	3	198	53.96
20	<p>Suppose there is a list such that: l=[2,3,4]. If we want to print this list in reverse order, which of the following methods should be used?</p> <p>a) reverse(l) b) list(reverse(l)) c) reversed(l) d) list(reversed(l))</p>	1	3	162	44.15
21	<p>What will be the output of the following Python function?</p> <pre>hex(15)</pre> <p>a) f b) 0xF c) 0Xf d) 0xf</p>	1	3	217	59.13
22	<p>Which of these is not a core data type?</p> <p>a) Lists b) Dictionary c) Tuples d) Class</p>	1	4	299	81.48
23	<p>In order to store values in terms of key and value we use what core data type.</p> <p>a) list b) tuple c) class d) dictionary</p>	1	4	287	78.21
24	<p>Which of the following commands will create a list?</p> <p>a) list1 = list() b) list1 = [] c) list1 = list([1, 2, 3]) d) all of the mentioned</p>	1	4	252	68.67
25	<p>Suppose listExample is ['h','e','l','l','o'], what is len(listExample)?</p> <p>a) 5 b) 4 c) None d) Error</p>	1	4	273	74.39
26	<p>Which of the following is a Python tuple?</p> <p>a) [1, 2, 3] b) (1, 2, 3) c) {1, 2, 3} d) {}</p>	1	4	296	80.66

27	<p>Suppose t = (1, 2, 4, 3), which of the following is incorrect?</p> <p>a) print(t[3]) b) t[3] = 45 c) print(max(t)) d) print(len(t))</p>	1	4	279	76.03
28	<p>Which of the following statements create a dictionary?</p> <p>a) d = {} b) d = {"john":40, "peter":45} c) d = {40:"john", 45:"peter"} d) All of the mentioned</p>	1	4	281	76.57
29	<p>Suppose d = {"john":40, "peter":45}, to delete the entry for "john" what command do we use?</p> <p>a) d.delete("john":40) b) d.delete("john") c) del d["john"] d) del d("john":40)</p>	1	4	231	62.95
30	<p>Suppose list1 is [2445,133,12454,123], what is max(list1)?</p> <p>a) 2445 b) 133 c) 12454 d) 123</p>	1	4	309	84.2
31	<p>What will be the output of the following Python expression? 24//6%3, 24//4//2</p> <p>a) (1,3) b) (0,3) c) (1,0) d) (3,1)</p>	2	1	269	73.3
32	<p>What will be the output of the following Python code? >>>example = "snow world" >>>print("%s" % example[4:7])</p> <p>a) wo b) world c) sn d) rl</p>	2	1	265	72.21
33	<p>What will be the output of the following Python code? x = 'abcd' for i in range(x): print(i)</p> <p>a) a b c d b) 0 1 2 3 c) error d) none of the mentioned</p>	2	2	211	57.5

34	<p>What will be the output of the following Python code? for i in range(int(2.0)): print(i)</p> <p>a) 0.0 1.0 b) 0 1 c) error d) none of the mentioned</p>	2	2	196	53.41
35	<p>Which of the following functions will not result in an error when no arguments are passed to it?</p> <p>a) min() b) divmod() c) all() d) float()</p>	2	3	181	49.32
36	<p>What will be the output of the following Python code?</p> <pre>def a(b): b = b + [5] c = [1, 2, 3, 4] a(c) print(len(c))</pre> <p>a) 4 b) 5 c) 1 d) An exception is thrown</p>	2	3	179	48.78
37	<p>What will be the output of the following Python code?</p> <pre>def cube(x): return x * x * x x = cube(3) print x</pre> <p>a) 9 b) 3 c) 27 d) 30</p>	2	3	284	77.39
38	<p>How many elements are in m?</p> <pre>m = [[x, y] for x in range(0, 4) for y in range(0, 4)]</pre> <p>a) 8 b) 12 c) 16 d) 32</p>	2	4	238	64.86
39	<p>What will be the output of the following Python code?</p> <pre>>>> a=(1,2) >>> b=(3,4) >>> c=a+b >>> c</pre> <p>a) (4,6) b) (1,2,3,4) c) Error as tuples are immutable d) None</p>	2	4	226	61.59

40	<p>What will be the output of the following Python code snippet?</p> <pre>a={1:"A",2:"B",3:"C"} for i,j in a.items(): print(i,j,end=" ")</pre> <p>a) 1 A 2 B 3 C b) 1 2 3 c) A B C d) 1:"A" 2:"B" 3:"C"</p>	2	4	212	57.77
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