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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Python for Data Science (course)

Announcements (announcements) About the Course (https://swayam.gov.in/nd1_noc19_cs59/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

Unit 4 - Week 2

Course outline	Assignment 2	
How to access the portal?	The due date for submitting this assignment has passed. Due on 2019-09-11, 23:	59 IST.
Week 0	Assignment submitted on 2019-09-11, 21:27 IST	4
Week 1	Package that deals with dataframe is numpy	1 point
Week 2	dataframe pandas	
Lists Part -1 (unit? unit=18&lesson=22)	math Yes, the answer is correct.	
Lists Part -2 (unit? unit=18&lesson=31)	Score: 1 Accepted Answers: pandas	
Tuples (unit? unit=18&lesson=23)	2) The data type of the following python object 'a' is: a={23, 24, 25, 26, 27} list	1 point
Dictionary (unit? unit=18&lesson=24)	dictionary set	
Sets (unit? unit=18&lesson=25)	arrays Yes, the answer is correct.	
Numpy Part -1 (unit? unit=18&lesson=26)	Score: 1 Accepted Answers: set	
Numpy Part -2 (unit? unit=18&lesson=27)	3) Variable 'a' is defined asa = 'gOOd moRning'Command to convert 'a' from 'gOOd moRning' to 'Good Morning' is:-	1 point
	a.upper()	

Matrix (unit?	a.lower()	
unit=18&lesson=28)	a.string()	
Linear algebra	a.title()	
Part -1 (unit? unit=18&lesson=29)	Yes, the answer is correct. Score: 1	
Linear algebra	Accepted Answers:	
Part -2 (unit?	a.title()	
unit=18&lesson=30)	4) Which of the following python data structure is immutable?	1 point
• Quiz :		,
Assignment 2	list	
(assessment?	dictionary	
name=19)	tuple	
○ Week 2	array	
Feedback (unit?		
unit=18&lesson=61)	Yes, the answer is correct. Score: 1	
Week 2: Lecture	Accepted Answers:	
slides (unit?	tuple	
unit=18&lesson=64)	5) Identify the braces used to create a <i>dictionary</i> in Python.	1 point
Assignment 2	3) Identity the braces used to create a dictionary in Fytholi.	i point
solutions (unit?	O()	
unit=18&lesson=67)	◎ {}	
Week 3		
	All of the above	
Supporting		
material for Week	Yes, the answer is correct. Score: 1	
4	Accepted Answers:	
	{}	
Week 4		4
	6) The command used to add elements to a <i>list</i>	1 point
DOWNLOAD	append()	
VIDEOS	extend()	
	insert()	
	• all of the above()	
	Yes, the answer is correct. Score: 1	
	Accepted Answers:	
	all of the above()	
	Using the list 'Stationery' answer questions 7-8	
	Product = ['Pencil', 'Pen', 'Eraser', 'Pencil Box', 'Scale']	
	Price= [5, 10, 2, 20, 12]	
	Brand = ['Camlin', 'Rotomac', 'Nataraj', 'Camel', 'Apsara'] Stationery = [Product, Price, Brand]	
	7) The command to add "Notebook" as the first element inside the first level of the list	1 point
	"Stationery" is:-	r point
	Stationery[0].append('Notebook')	
	Stationery[0].insert(0,'Notebook') Stationery[0].insert(0,'Notebook')	
	Stationery[0][1] = "Notebook"	
	Stationery[0].extend('Notebook')	

Yes, the answer is correct. Score: 1 Accepted Answers: Stationery[0].insert(0,'Notebook')	
8) Command to replace the element of <i>Brand</i> , "Camel" with "Camlin" inside the list is:-	1 point
 Stationery[2][3].append('Camlin') Stationery[2].insert(3,'Camlin') Stationery[2][3] = "Camlin" none of the above 	
Yes, the answer is correct. Score: 1 Accepted Answers: Stationery[2][3] = "Camlin"	
9) The list "Months" is defined as:-	1 point
Months = ['Jan', 'Mar', 'June', 'Aug', 'June', 'Feb', 'Nov', 'Dec', 'June', 'Apr', 'May', 'June	[י
Which of the following commands returns the number of occurrences of 'June'?	
 Months.count('June') Months['June'].count() Months['June'].len() Yes, the answer is correct. Score: 1 Accepted Answers: Months.count('June') 10)Choose the correct command to sort 'Ages' in ascending order Ages = ['20', '26', '56', '54', '32', '28', '23', '99', '87', '10', '65', '88', '66', '48', '42', '27', '33', '38', '83', '94', '66', '44'] sorted(Ages, reverse=False) Ages.sort() sorted(Ages, reverse=True) both A and B Yes, the answer is correct. Score: 1 Accepted Answers: both A and B 	1 point
Answer questions 11 and 12 using the information given below:	
D = ['MONDAY', 'TUESDAY', 'WEDNESDAY', 'THURSDAY', 'FRIDAY', 'SATURDAY', 'SUNDAY']
11)The command to print WEDNESDAY , THURSDAY from the list "D" is	1 point
 print(D[-5], D[-4]) print(D[3], D[4]) print(D[2:5]) all of the above 	

7 15)The output after you run the command: Mylist.pop(0) print(Mylist) ['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e'] ['a', 'b', 'b', 'b', 'b', 'c', 'c', 'd'] ['a', 'a' 'b', 'b', 'b', 'c', 'c', 'd'] ['b', 'b', 'b', 'c', 'c', 'd', 'e'] Yes, the answer is correct. Score: 1 Accepted Answers: ['a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']	1 point
15)The output after you run the command: Mylist.pop(0) print(Mylist) ['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e'] ['a', 'b', 'b', 'b', 'b', 'c', 'c', 'd'] ['a', 'a' 'b', 'b', 'b', 'c', 'c', 'd'] ['b', 'b', 'b', 'c', 'c', 'd', 'e'] Yes, the answer is correct. Score: 1	1 point
15)The output after you run the command: Mylist.pop(0) print(Mylist) ['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e'] ['a', 'b', 'b', 'b', 'c', 'c', 'd', 'e'] ['a', 'a' 'b', 'b', 'b', 'c', 'c', 'd'] ['b', 'b', 'b', 'c', 'c', 'd', 'e'] Yes, the answer is correct.	1 point
15)The output after you run the command: Mylist.pop(0) print(Mylist) ['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e'] ['a', 'b', 'b', 'b', 'c', 'c', 'c', 'd']	1 point
15)The output after you run the command: Mylist.pop(0) print(Mylist) ['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e'] ['a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']	1 point
15)The output after you run the command: Mylist.pop(0) print(Mylist) ['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']	1 point
15)The output after you run the command: Mylist.pop(0) print(Mylist)	1 point
15)The output after you run the command: Mylist.pop(0)	1 point
15)The output after you run the command:	1 point
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Accepted Answers:	
Yes, the answer is correct. Score: 1	
© 6	
4	
O 8	
® 7	
14)The output of the code: Mylist.index('d') is	1 point
Mylist =['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']	
Answer questions 14 and 15 using the information given below:	
clear()	
Accepted Answers:	
Yes, the answer is correct. Score: 1	
all of the above()	
oclear()	
discard()	
remove()	
13)The command to clear all the elements from a Set is:-	1 point
both B and C	
Score: 1 Accepted Answers:	
Yes, the answer is correct.	
both B and C	
○ list(reversed(D))	
D.reverse()	
reverse(D)	
12)The command used to reverse the above list "D" is:-	1 point
print(D[-5], D[-4])	
Score: 1 Accepted Answers: print(D[-5], D[-4])	

=	16)The command to find the number of elements in the following list "N"							1 point		
lei	n(N)									
	count()	١								
0 N.		,								
	ount(N)									
Yes, th Score:	1		orrect.							
Accept len(N)	eu Ans	weis.								
Create a	a dictio	onary	'Count	ry' tha	at maps	the	followir	ng countries	to their capitals	s respectively.
Cot	ıntry	Ind	ia	Ch	ina	Ja	pan	Qatar	Australia	
Car	oital	Del	hi	Bei	ijing	_	okyo	Doha	Sydney	
O Co	ountry.untry	update nd B the abo	ove		ra" 'Canber	ra"})				
Create t	he follo	owing s	sets X1	and X	(2 using	the o	data pro	vided below a	nd answer the o	uestions 18 and
X1	9	5	6	3	7	8	1			
X2	7	1	3	2	0	4	8			
18)The	output	of X1.i	nterse	ction(X2) will	be				1 point
O}	,1,7,8}									
• {1	,3,7,8}									
	,2,7,8}									
	,4,7,8}									
Yes, th	e answ	er is c	orrect.							
Accept {1,3,7,8	ed Ans	wers:								
19)The						1 point				
o re	turns a	ll elem	ents be	elongir	ng to bo	th set	X1 and	I X2		
	returns all elements belonging to both set X1 and X2returns elements belonging to X1 but not X2									
	returns elements not common to both sets X1 and X2									
returns elements common to X1 and X2										

Yes, the answer is correct. Score: 1
Accepted Answers: returns elements not common to both sets X1 and X2
20)Which of the following is a code template for creating objects in Python? 1 point
list set dictionary class
Yes, the answer is correct. Score: 1 Accepted Answers: class
Create the following Matrix "Y" in Python and answer questions 21 to 23:
4 9 6 2 8 4 5 10 15
21) The determinant of the matrix "Y" rounded off to the zeroth decimal place is 1 point
 110 120 0 1 Yes, the answer is correct. Score: 1 Accepted Answers: 110
22) Inverse of matrix " Y " rounded off to second decimal place is 1 point
([[- 0.73, 0.68, 0.11], [0.09, -0.27, 0.04], [0.18, 0.05, -0.13]]) (([[0.73, -0.68, -0.11], [-0.09, 0.27, -0.04], [-0.18, 0.05, 0.12]))
[-0.18, 0.05, 0.13]]) ([[0.73, 0.68, 0.11], [0.09, 0.27, 0.04],
[0.18, 0.05, 0.13]])
([[- 0.73, -0.68, -0.11], [-0.09, -0.27, -0.04], [-0.18, -0.05, -0.13]])
Yes, the answer is correct. Score: 1 Accepted Answers:

([[0.73, -0.68, -0.11],
[-0.09, 0.27, -0.04],
[-0.18, 0.05, 0.13]])

23) The column sum of **Y**^T is

matrix([[11, 27, 25]])

matrix([[19, 14, 25]])

matrix([[19, 14, 30]])

matrix([[11, 27, 30]])

Yes, the answer is correct.
Score: 1

Accepted Answers:
matrix([[19, 14, 30]])