Χ





santosh44kumar@yahoo.com >

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

Announcements (announcements) About the Course (https://swayam.gov.in/nd1_noc20_cs36/preview)

Ask a Question (forum) Progr

Progress (student/home)

Mentor (student/mentor)

Unit 4 - Week 2

Course Assignment 2 outline The due date for submitting this assignment has passed. Due on 2020-02-12, 23:59 IST. How does an **NPTEL** online Assignment submitted on 2020-02-10, 23:51 IST course work? Week 0 MCQ/MSQ – questions can have 1 or more correct answers. Week 1 1) Which of the following sequence data type is defined by enclosing the elements in 1 point parentheses '()'? Week 2 Lists Jupyter setup Arrays (unit? Tuples unit=2&lesson=73) Dictionary Sequence_data_part_1 (unit? Yes, the answer is correct. unit=2&lesson=74) Score: 1 Accepted Answers: Sequence data part 2 (unit? unit=2&lesson=75) 2) Which of the following statement is not valid about Numpy 'Arrays'? 1 point Sequence_data_part_3 The type of items in the array is specified by a separate data-type object (dtype) (unit? numpy arrays are immutable unit=2&lesson=76) numpy arrays can support multidimensional data Sequence data part 4 ndarray.shape attribute returns a tuple consisting of array dimensions (unit?

unit=2&lesson=77)

- Numpy (unit? unit=2&lesson=78)
- Week 2 : Lecture slides (unit? unit=2&lesson=90)
- Quiz : Practice Assignment 2 (assessment? name=67)
- Quiz : Assignment 2 (assessment? name=83)
- Week 2 FAQs (unit? unit=2&lesson=91)
- Week 2 Feedback (unit? unit=2&lesson=85)
- Solution : Assignment 2 (unit? unit=2&lesson=97)

Week 3

Week 4

Supporting material for Week 4

Download Videos

```
Yes, the answer is correct.
Score: 1
Accepted Answers:
```

numpy arrays are immutable

3) The command to access the last element from the array "a" is___

1 point

```
import array as arr
a = arr.array('d', [2.5, 3.5, 4.5])
```

- print (a[0])
- print (a[3])
- print (a[-1])
- print (a)

Yes, the answer is correct.

Score: 1

Accepted Answers:

print (a[-1])

- 4) Create an array 'x' with values 0 to 9 and find what is the command to extract the elements in 1 point the following sequence array ([5,3,1])?
 - x = np.arange(10); x[5,3,1]
 - x = np.arange(10); x[-5::2]
 - x = np.arange(10); x[5:-2]
 - x = np.arange(10); x[5::-2]

No, the answer is incorrect.

Score: 0

Accepted Answers:

x = np.arange(10); x[5::-2]

5) What will be the output after executing the following codes?

1 point

- 0,8,9,15
- 8.9.15.17
- **8,9,15**
- IndexError

Yes, the answer is correct.

Score: 1

Accepted Answers:

8,9,15

6) The method used to increase the length of the list by number of elements in its argument.

1 point

add ()

insert ()	
extend ()	
opop ()	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
extend ()	
7) The function that returns the indices of the sorted elements.	1 point
np.argsort ()	
np.sort ()	
np.bogosort ()	
np.selectionsort ()	
Yes, the answer is correct. Score: 1	
Accepted Answers: np.argsort ()	
8) Create two tuples	1 point
tuple=(2,4,6,3,7) tuple1 =(1,2,3)	
Find out which of the following code does not work on a tuple	
tuple+tuple1	
sum(tuple)	
tuple[3] = 45	
len(tuple)	
Yes, the answer is correct. Score: 1	
Accepted Answers: tuple[3] = 45	
9) The command to find the number of elements in the following array " N " is	1 point
N=np.array([24, None, 29, 'str', np.nan, 23, 20, (), [],])
✓ len(N)	
N.count()	
✓ np.size(N)	
N.size()	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
len(N)	

np.size(N)		
10)Which of the following is not a valid syntax for creating a Set 'M' in Python?		
M = set ([11,12,12,13,14,15]) M = {11,12,13,14} M = set ([11,12],[13,14],[14,15]) M = set ((11,12,13,14))		
No, the answer is incorrect. Score: 0 Accepted Answers: M = set ([11,12],[13,14],[14,15])		
11)What will be the output after executing the following codes?	1 point	
<pre>S={12,13,14,15} S.intersection_update({17,13,14,16}); print (S)</pre>		
 Error, object has no attribute intersection_update S={12,13,14,15,16, 17} S={12,13,14,15} S={13,14} 		
Yes, the answer is correct. Score: 1 Accepted Answers: S={13,14}		
12)Which of the following command returns the set of all elements from both sets, a and b ?	1 point	
 a ^ b a & b a b a - b No, the answer is incorrect. Score: 0 Accepted Answers: a b 		
13)What will be the output of ndarray.ndim attribute?	1 point	
Gives the size of each element of the array in bytes Gives the number of axes or dimensions of the array Gives the buffer containing the actual elements of the array Gives an object describing the type of the elements in the array Yes, the answer is correct. Score: 1 Accepted Answers: Gives the number of axes or dimensions of the array		

```
14For dictionary d = {"plum ":0.66, "pears ":1.25,"oranges ":0.50, "apple":0.75 }, which of the 1 point
following statement correctly updates
      the price of oranges to 0.90?
    \bigcirc d[2] = 0.90
    \bigcirc d[0.50] = 0.90
    • d["oranges "] = 0.90
    \bigcirc d["plum "] = 0.90
  Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  d["oranges "] = 0.90
 15)Which of the following command(s) is/are used to join arrays?
                                                                                                  1 point
    np.concatenate
    np.hstack
    np.vstack
    all of the above
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  all of the above
 16)What will be the output of the dictionary 'c'?
                                                                                                  1 point
               c=\{\}
                c[1]=1
               c['1']=2
                c[1] +=1
               print(c)
    (1:1)
    ¶ { 1: 2, '1': 2 }
    ( 1: 0; '1': 2 )
    ( 1: 1, '1': 2 )
  Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  {1: 2, '1': 2}
 17) The output of the code given below is
                                                                                                  1 point
      n = [x*x for x in range(4)]
      print(n)
     [1, 4, 9] 
    [1, 4, 9, 16]
    [0, 1, 4, 9]
    0, 1, 4, 9, 16
```

Yes, the answer is correct. Score: 1 Accepted Answers: [0, 1, 4, 9]	
18) The output of the code given below is list = [2, 4, 6, 8] a = (x**3 for x in list) print(next(a))	1 point
46864	
Yes, the answer is correct. Score: 1 Accepted Answers:	
19)Which of the following is not possible in sequence datatypes?	1 point
Create a tuple inside a set Create a list inside a set Create a list inside a tuple Create a set inside a list Yes, the answer is correct. Score: 1 Accepted Answers: Create a list inside a set	
20)Which of the following commands will give you a new numpy array with Boolean values?	1 point
np.ones((3,3),True) np.zeros((3,3),False) np.arange((3,3),False) np.full((3,3),True) Yes, the answer is correct. Score: 1 Accepted Answers: np.full((3,3),True)	