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Unit 4 - Week 2

Assignment 2

The due date for submitting this assignment has passed. **Due on 2019-09-11, 23:59 IST.**

Assignment submitted on 2019-09-11, 21:27 IST

1) Package that deals with dataframe is ***1 point***

- numpy
- dataframe
- pandas
- math

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

2) The data type of the following python object **'a'** is: a={23, 24, 25, 26, 27} ***1 point***

- list
- dictionary
- set
- arrays

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

3) Variable ‘a’ is defined as ***1 point***
a = ‘gOOd moRning’
Command to convert ‘a’ from ‘gOOd moRning’ to ‘Good Morning’ is:-

- a.upper( )

- a.lower( )
- a.string( )
- a.title( )

Yes, the answer is correct.
Score: 1
Accepted Answers:
a.title( )

4) Which of the following python data structure is immutable? ***1 point***

- list
- dictionary
- tuple
- array

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

5) Identify the braces used to create a ***dictionary*** in Python. ***1 point***

- ( )
- { }
- [ ]
- All of the above

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

6) The command used to add elements to a ***list*** ***1 point***

- append( )
- 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 **"Stationery"** is:- ***1 point***

- Stationery[0].append('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 *Brand*, **"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']

Which of the following commands returns the number of occurrences of **'June'**?

- Months.count('June')
- Months.len('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 ***1 point***

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

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

Yes, the answer is correct.
Score: 1

Accepted Answers:
print(D[-5], D[-4])

12)The command used to reverse the above list ***"D"*** is:- ***1 point***

- reverse(D)
- D.reverse()
- list(reversed(D))
- both B and C

Yes, the answer is correct.
Score: 1

Accepted Answers:
both B and C

13)The command to clear all the elements from a ***Set*** is:- ***1 point***

- remove( )
- discard( )
- clear( )
- all of the above( )

Yes, the answer is correct.
Score: 1

Accepted Answers:
clear( )

Answer questions 14 and 15 using the information given below:

Mylist =['a', 'a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']

14)The output of the code: **Mylist.index('d')** is ***1 point***

- 7
- 8
- 4
- 6

Yes, the answer is correct.
Score: 1

Accepted Answers:
7

15)The output after you run the command: ***1 point***

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.
Score: 1

Accepted Answers:
['a', 'b', 'b', 'b', 'c', 'c', 'd', 'e']

16)The command to find the number of elements in the following list "**N**" ***1 point***

N = [24, 27, 29, 26, 25, 23, 20]

- (•) len(N)
- ( ) N.count()
- ( ) N.len()
- ( ) count(N)

Yes, the answer is correct.
Score: 1

Accepted Answers:
len(N)

Create a dictionary 'Country' that maps the following countries to their capitals respectively.

Country	India	China	Japan	Qatar	Australia
Capital	Delhi	Beijing	Tokyo	Doha	Sydney

17)The command to replace "**Sydney**" with "**Canberra**" is:- ***1 point***

- ( ) Country['Australia']="Canberra"
- ( ) Country.update({"Australia":"Canberra"})
- (•) Both A and B
- ( ) None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Both A and B

Create the following sets X1 and X2 using the data provided below and answer the questions 18 and 19

X1	9	5	6	3	7	8	1
X2	7	1	3	2	0	4	8

18)The output of **X1.intersection(X2)** will be ***1 point***

- ( ) {0,1,7,8}
- (•) {1,3,7,8}
- ( ) {1,2,7,8}
- ( ) {1,4,7,8}

Yes, the answer is correct.
Score: 1

Accepted Answers:
{1,3,7,8}

19)The command **X1.symmetric_difference(X2)** ***1 point***

- ( ) returns all elements belonging to both set X1 and X2
- ( ) returns 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, 0.13]])
- ([[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 $\mathbf{Y}^T$ is **1 point**

- 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]])