

Quiz no 05

Introduction to Data Analyst and Data Science for Beginners

* Required

1. Email *

2. Write Your Name: *

3. What will be the output of the following code snippet? *

2 points

```
1 count = 0
2 while(True):
3     if count % 3 == 0:
4         print(count, end = " ")
5     if(count > 15):
6         break;
7     count += 1
8
```

Mark only one oval.

- ☐ 0 1 2 15
- ☐ infinite loop
- ☐ 0 3 6 9 12 15
- ☐ 0 3 6 9 12

4. What will be the output of the following code snippet? *

2 points

```
1 def thrive(n):
2     if n % 15 == 0:
3         print("thrive", end = " ")
4     elif n % 3 != 0 and n % 5 != 0:
5         print("neither", end = " ")
6     elif n % 3 == 0:
7         print("three", end = " ")
8     elif n % 5 == 0:
9         print("five", end = " ")
10    thrive(35)
11    thrive(56)
12    thrive(15)
13    thrive(39)
14
```

Mark only one oval.

- ☐ five neither thrive three
- ☐ five neither three thrive
- ☐ three three three
- ☐ five neither five neither

5. What will be the type of the variable `sorted_numbers` in the below code snippet? * 2 points

```
1 numbers = (4, 7, 19, 2, 89, 45, 72, 22)
2 sorted_numbers = sorted(numbers)
3 print(sorted_numbers)
4
```

Mark only one oval.

- ☐ List
- ☐ Tuple
- ☐ String
- ☐ Int

6. What will be the output of the following code snippet? * 2 points

```
1 numbers = (4, 7, 19, 2, 89, 45, 72, 22)
2 sorted_numbers = sorted(numbers)
3 odd_numbers = [x for x in sorted_numbers if x % 2 != 0]
4 print(odd_numbers)
5
6
```

Mark only one oval.

- ☐ [2,4,7,22]
- ☐ [19,7,45,22]
- ☐ [7,19,89,45]
- ☐ [7,19,45,89]

7. Suppose `d = {"john":40, "peter":45}`, what happens when we try to retrieve a value using the expression `d["susan"]`? * 2 points

Mark only one oval.

- ☐ Since "susan" is not a value in the set, Python raises a `KeyError` exception
- ☐ It is executed fine and no exception is raised, and it returns `None`
- ☐ Since "susan" is not a key in the set, Python raises a `KeyError` exception
- ☐ Since "susan" is not a key in the set, Python raises a syntax error

8. Which of these about a dictionary is false? * 2 points

Mark only one oval.

- ☐ The values of a dictionary can be accessed using keys
- ☐ The keys of a dictionary can be accessed using values
- ☐ Dictionaries aren't ordered
- ☐ Dictionaries are mutable

9. What will be the output of the following code snippet? *

2 points

```
1 word = "Python Programming"
2 n = len(word)
3 word1 = word.upper()
4 word2 = word.lower()
5 converted_word = ""
6 for i in range(n):
7     if i % 2 == 0:
8         converted_word += word2[i]
9     else:
10        converted_word += word1[i]
11 print(converted_word)
12
```

Mark only one oval.

- ☐ Python Programming
- ☐ pythonprogramming
- ☐ pYtHoN PrOgRaMmInG
- ☐ PYTHON PROGRAMMING

10. What is the output of the following code? *

2 points

```
1 a = "4, 5"
2 nums = a.split(',')
3 x, y = nums
4 int_prod = int(x) * int(y)
5 print(int_prod)
6
7
8
```

Mark only one oval.

- ☐ 30
- ☐ 40
- ☐ 20
- ☐ "20"

11. As what datatype are the *args stored, when passed into a function? *

2 points

Mark only one oval.

- ☐ List
- ☐ Tuple
- ☐ Dictionary
- ☐ Set

12. If dict1 is a dictionary with some key-value pairs, what does dict1.popitem() do? * 2 points

Mark only one oval.

- ☐ Removes an arbitrary element
- ☐ Removes all the key-value pairs
- ☐ Removes the key-value pair for the key given as an argument
- ☐ Invalid method for dictionary

13. What will be the output of the following Python code snippet? * 2 points

```
1 total={}
2 def insert(items):
3     if items in total:
4         total[items] += 1
5     else:
6         total[items] = 1
7 insert('Apple')
8 insert('Ball')
9 insert('Apple')
10 print (len(total))
11
```

Mark only one oval.

- ☐ 3
- ☐ 2
- ☐ 1
- ☐ 0

14. What will be the output of the following Python code? *

2 points

```
1  a = {}  
2  a[1] = 1  
3  a['1'] = 2  
4  a[1]=a[1]+1  
5  count = 0  
6  for i in a:  
7      count += a[i]  
8  print(count)  
9  
10
```

Mark only one oval.

- ☐ 2
- ☐ 4
- ☐ 1
- ☐ Error, the keys can't be a mixture of letters and numbers

15. What will be the output of the following code snippet? *

2 points

```
1  a = [1, 2, 3, 4]  
2  b = [3, 4, 5, 6]  
3  c = [x for x in a if x not in b]  
4  print(c)  
5  
6
```

Mark only one oval.

- ☐ [3,4]
- ☐ [1,2,3,4,5,6]
- ☐ [1,2,5,6]
- ☐ [1,2]

16. What will be the output of the following program? *

2 points

```
1 def myfunc(a):  
2     a = a + 2  
3     a = a * 2  
4     return a  
5  
6 print myfunc(2)  
7
```

Mark only one oval.

- ☐ 8
- ☐ 16
- ☐ Indentation Error
- ☐ Runtime Error

17. What will be the output of the following python code? *

2 points

```
1  numberGames = {}
2  numberGames[(1,2,4)] = 8
3  numberGames[(4,2,1)] = 10
4  numberGames[(1,2)] = 12
5  sum = 0
6  for k in numberGames:
7      sum += numberGames[k]
8  print(len(numberGames) + sum)
9
10
```

Mark only one oval.

- ☐ 30
- ☐ 32
- ☐ 33
- ☐ 31

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