

# **Python - Assignment**

Part I

## List\_remove\_append

**Description**: Remove SPSS from input\_list=['SAS', 'R', 'PYTHON', 'SPSS'] and add 'SPARK' in its place.

### **String to List Conversion**

**Description**: Convert a string input\_str = 'I love Data Science & Python' to a list by splitting it on '&'. The sample output for this string will be:

```
['I love Data Science ', Python']
```

## **List to String Conversion**

**Description**: Convert a list ['Pythons syntax is easy to learn', 'Pythons syntax is very clear'] to a string using '&'. The sample output of this string will be:

```
Pythons syntax is easy to learn & Pythons syntax is very clear
```

#### **Nested List**

**Description**: Extract Python from a nested list

input\_list = [['SAS','R'],['Tableau','SQL'],['Python','Java']]

#### It's the time to disco

**Description**: t = ("disco", 12, 4.5)

What is the output of: t[0][2]

## **String Palindrome**

**Description**: Write a program to check whether a string is a palindrome or not. Print 1 if the string is a palindrome and 0 otherwise.

Input: Any string

**Output**: 1 if the string is palindrome, 0 otherwise.

#### **Reverse Words**

**Description**: You will be given a sentence in the form of a string. You have to reverse the order of the words in the sentence. Remember not to reverse the individual words, but the order of words. Check the sample input-output for further clarification.

Input: A string, which will consist of a few spaces.

**Output**: The words in reverse order

## **String Formatting**

**Description**: Write a program that satisfies below examples

Input 1: caloRie ConsuMed

Output 1: calorie\_consumed

Input 2: data science

Output 2: data\_science

Input 3: datascience

Output 3: datascience

# **Multiple Choice Questions**

- 1. How will you extract 'love' from the string S = "I love Python"? (More than one option may be correct.).
  - a. S[2:5]
  - b. S[2:6]
  - c. S[3:7]
  - d. S[-11:-7]
  - e. S[-11:-8]
- 2. What will the output of 3 \* 3 \*\* 3 be?
  - a. 9
  - b. 27
  - c. 81
  - d. 729
- 3. What will the output be of ((500//7) % 5) \*\* 3?
  - a. 1
  - b. 2.91
  - c. 71.42
  - d. 0
  - e. 8
- 4. If you have a tuple T = (3, 5, 7, 11), what will the output of T.append(9) be?
  - a. (3, 5, 7, 9, 11)
  - b. (9, 3, 5, 7, 11)
  - c. (3, 5, 7, 11, 9)
  - d. Error
- 5. What will the output of the following program be?
  - a. Vikas
  - b. Mahima
  - c. y
  - d. A

6. What will the output of the following code be?

```
1 = [32, 34, 12, 27, 33]
1.append((14, 19))
print(len(1))
```

- a. 5
- b. 6
- c. 7
- d. The code will throw an error
- 7. Which of the following statements is incorrect regarding sets in Python?
  - a. Sets do not contain duplicate elements
  - b. Sets are represented using curly braces {}
  - c. Sets are immutable
  - d. All of the above
- 8. What will the output be of the following code?

- a. 1
  - 2
  - 3
- b. ['Raj', 22]

['Simran', 21]

['Rahul', 40]

- c. 1 ['Raj', 22]
  - 2 ['Simran', 21]
  - 3 ['Rahul', 40]
- d. 'Raj'
  - 'Simran'

'Rahul'

9. What will the 'comprehension equivalent' be for the following snippet of code?

- a. word for sentence in paragraph for word in sentence.split()
- b. [word for sentence in paragraph for word in sentence.split()]
- c. word for word in sentence.split() for sentence in paragraph
- d. [word for word in sentence.split() for sentence in paragraph]
- 10. What will be the output of this code?

```
print{list(range{10, ..., 1, ...-1}))

a. [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
b. [9, 8, 7, 6, 5, 4, 3, 2]
c. [9, 8, 7, 6, 5, 4, 3, 2, 1]
```

d. [10, 9, 8, 7, 6, 5, 4, 3, 2]