Assignment -1

Python Programming

Assignment Date	17 September 2022
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Maximum Marks	2 Marks

Basic Python

Question-1:

▼ 1. Split this string

```
[] s = "Hi there Sam!"

x = s.split()
print(x)

['Hi', 'there', 'Sam!']
```

Question-2:

▼ 2. Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

```
[ ] planet = "Earth"
    diameter = 12742

[ ] txt = "The diameter of {planet} is {diameter} kilometers".format(planet = "Earth", diameter = 12742)
    print(txt)

The diameter of Earth is 12742 kilometers
```

Question-3:

▼ 3. In this nest dictionary grab the word "hello"

```
d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}

[ ] print(d['k1'][3]['tricky'][3]['target'][3])

hello
```

Numpy

Question-4:

```
[ ] import numpy as np
```

- - 4.2 Create an array of 10 fives?

```
[ ] array = np.zeros(10)
    print("The array of 10 Zeros are:")
    print(array)

The array of 10 Zeros are:
    [0. 0. 0. 0. 0. 0. 0. 0. 0.]

[ ] array = np.ones(10)*5
    print("The array of 10 Fives are:")
    print(array)

The array of 10 Fives are:
    [5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

Question-5:

▼ 5. Create an array of all the even integers from 20 to 35

```
[] array=np.arange(20,35,2)
print("Array of all the even integers from 20 to 35 are:")
print(array)

Array of all the even integers from 20 to 35 are:
[20 22 24 26 28 30 32 34]
```

Question-6:

▼ 6. Create a 3x3 matrix with values ranging from 0 to 8

```
[ ] x = np.arange(0, 9).reshape(3,3)
print(x)

[[0 1 2]
   [3 4 5]
   [6 7 8]]
```

Question-7:

▼ 7. Concatenate a and b

```
a = np.array([1, 2, 3]), b = np.array([4, 5, 6])
```

```
[ ] a = np.array([1, 2, 3])
b = np.array([4, 5, 6])
c = np.concatenate([a,b])
print(c)
[1 2 3 4 5 6]
```

→ Pandas

Question-8:

▼ 8. Create a dataframe with 3 rows and 2 columns

Question-9:

■ 9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023

Question-10:

▼ 10. Create 2D list to DataFrame

```
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
```