Assignment -1

Python Programming

Assignment Date	19 September 2022	
Student Name	Steve John D	
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Maximum Marks	2 Marks	

Basic Python

1. Split this string

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

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

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

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

The diameter of Earth is 12742 kilometers
```

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

Numpy

```
In [ ]: import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
In []: array=np.zeros(10) print('An array of 10 zeros') print(array)

An array of 10 zeros [0.0.0.0.0.0.0.0.0.0.0]

In []: array=np.ones(10)*5 print('An array of 10 fives') print(array)

An array of 10 fives [5.5.5.5.5.5.5.5.5.5]
```

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

7. Concatenate a and b

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

```
In []: arr=np.array([[1,2,3],[4,5,6]] )
    print(arr)

[[1 2 3]
    [4 5 6]]
```

Pandas

8. Create a dataframe with 3 rows and 2 columns

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

10. Create 2D list to DataFrame

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