Assignment 1

Assignment Date	28 September 2022
Student Name	Carline Imakulate V
Student Roll Number	811519104019
Maximum Marks	2 Marks

1. Split this string

```
In [16]: s = "Hi there Sam!"
In [17]: s.split()
Out[17]: ['Hi', 'there', 'Sam!']
```

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

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

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

```
In [20]: d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}
In [21]: g=d['k1'][3]
h=g['tricky'][3]
print(h['target'][3])
hello
```

Numpy

```
In [22]: import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
In [23]: array=np.zeros(10) print(array)
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

In [24]: array=np.ones(10)*5 print(array)
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

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

```
In [25]: array=np.arange(20,35,2) print(array)

[20 22 24 26 28 30 32 34]
```

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

```
In [26]: x = np.arange(0,9).reshape(3,3)
print(x)

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

7. Concatenate a and b

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

```
In [27]: import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
print(np.concatenate((a,b)))

[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]]
```

```
In [32]: import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
In [34]: dframe = pd.DataFrame(lists)
print(dframe)

0     1     2
0     1     aaa     22
1     2     bbb     25
2     3     ccc     24
```