Assignment – 1

Python Programming

Assignment Date	08 September 2022
Student Name	Mr. T. Logavarthan
Student Roll Number	142219106048
Maximum Marks	2 Marks

TASKS:

1. Split the String

```
In [2]: s = "Hi there Sam!"

In [3]: print(s.split())
['Hi', 'there', 'Sam!']
```

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

```
In [4]:    planet = "Earth"
    diameter = 12742

In [7]:    print(f"The diameter of Earth is {diameter} kilometers.")

The diameter of Earth is 12742 kilometers.
```

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

```
In [8]: d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
In [9]: print(d['k1'][3]['tricky'][3]['target'][3])
hello
```

4. Numpy Import numpy library

```
In [10]: import numpy as np
```

4.1 Create an array of 10 Zeros.

```
In [11]: zeros=np.zeros(10)
```

4.2 Create an array of 10 fives.

```
In [15]: fives=np.full(10,5) print(zeros,fives)

[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.] [5 5 5 5 5 5 5 5 5]
```

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

```
In [16]: arr=[i for i in range(20,35+1) if i%2==0] arr

Out[16]: [20, 22, 24, 26, 28, 30, 32, 34]
```

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

7. Concatenate A and B

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

Out[27]:
    array([1, 2, 3, 4, 5, 6])
```

8. Create a data frame with 3 rows and 2 Columns

Import PANDAS

```
In [28]: import pandas as pd
```

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

10. Create a 2D List to DataFrame