Assignment – 1

Python Programming

Assignment Date	08 September 2022
Student Name	Mr. R. Rajesh
Student Roll Number	142219106074
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]
```

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

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
```

 Out[34]:
 name age

 0
 raj
 21

 1
 jhon
 26

 2
 joe
 28

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

```
In [35]: date=pd.date_range("01-01-2023","10-02-2023",freq="D")

DatetimeIndex(['2023-01-01', '2023-01-02', '2023-01-03', '2023-01-04', '2023-01-05', '2023-01-06', '2023-01-07', '2023-01-08', '2023-01-09', '2023-01-10', ...

'2023-09-23', '2023-09-24', '2023-09-25', '2023-09-26', '2023-09-27', '2023-09-28', '2023-09-29', '2023-09-30', '2023-10-01', '2023-10-02'], dtype='datetime64[ns]', length=275, freq='D')
```

10. Create a 2D List to DataFrame