Assignment -1

Python Programming

Assignment Date	08 September 2022
Student Name	Ms. KARTHIKA M
Student Register Number	730419104035
Maximum Marks	2

Basic Python

1. Split this string

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

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"

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

Numpy

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

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

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

```
In [ ]: print(np.arange(20,35,2))
      [20 22 24 26 28 30 32 34]
```

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

7. Concatinate a and b

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

```
In [ ]: 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

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