Assignment -1

Python Programming

Assignment Date	08 September 2022	
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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));
```

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

The diameter of Earth is 12742 kilometers.

```
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?

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

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[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

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

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

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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