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MAXIMUM MARKS	2 MARKS

ASSIGNMENT1

Basic Python commands:

Basic Python

1. Split this string

```
In []: s = "fit there Samt"
In []: print(s.split())
Out[]: ('Hi', 'there', 'Samt')
```

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

Numpy

```
In [9]: import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
In [11]: print(np.zeros(10))
        [0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
In [13]: print(np.ones(10)*5)
        [3, 5, 5, 5, 5, 5, 5, 5, 5, 5]
```

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

```
In [16]: 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

```
In [22]: print(np.arange(0,9).reshape(3,3))

[(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]: a = np.array([1, 2, 3])
b = np.array([4, 5, 6])
print(np.concatenate((a,b),axis=0))
[1.2 3 4 5 6]
```

Pandas

8. Create a dataframe with 3 rows and 2 columns

```
In [30]: data = [[1,2],[3,4],[5,6]]
print(pd.DataFrame(data))

0 1
0 1 2
1 3 4
2 5 6
```

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]: lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
```

```
In [32]: lists = [[[, 'eaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

In [37]: print(bd.DataFrame(lists.columns=['value1'.'value2'.'value3']))
```