Assignment -1

Python Programming

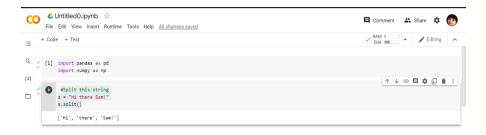
Assignment Date	16 September 2022	
Student Name	Lakshmi P	
Student Roll Number	713119104009	
Maximum Marks	2 Marks	

BASIC PYTHON

1. Split this string

```
#Split this string
s = "Hi there Sam!"
s.split()
```

OUTPUT



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

Output should be:

The diameter of earth is 12742 kilometres.

```
planet = "Earth"
diameter = 12742
planet = "Earth"
diameter = 12742
print('The diameter of {} is {} kilometres.'. Format(planet, diameter));
```



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

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

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

OUTPUT



4.Numpy

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

- 4.1 array=np.zeros(10)
 Array
- 4.2 array=np.ones(10)*5 Array

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

```
array=np.arange(20,35,2)
array
```

OUTPUT



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

```
matrix=np.arange(0,9).reshape(3,3)
matrix
```

OUTPUT

```
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Lomment Share to share the file Edit View Insert Runtime Tools Help All changes saved

RAM Low Marking A Disk Low Marking A
```

7. Concatenate a and b

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

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

```
      Comment
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```

Pandas

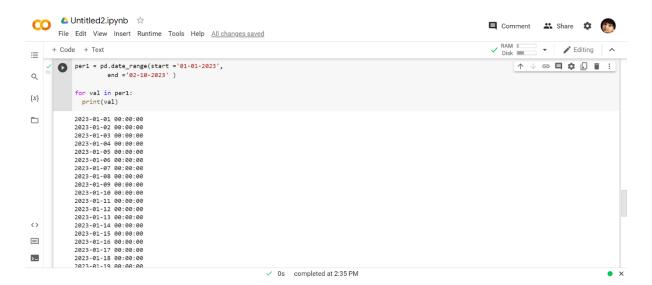
8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd
data = [['vb', 10], ['hari', 15], ['prasath', 14]]
df = pd.DataFrame(data, columns=['Name', 'Age'])
df
```

OUTPUT



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]]

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

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

# Create the pandas DataFrame
df = pd.DataFrame(lists, columns = ['s.no', 'name', 'Age'])

# print dataframe.
print(df)
```