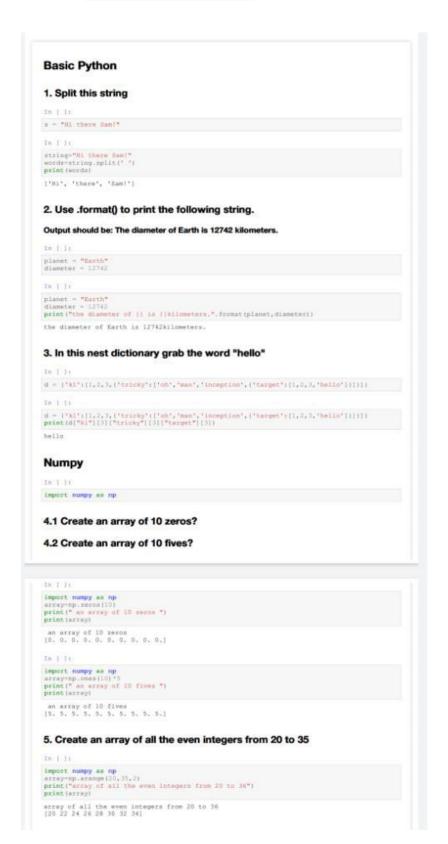
## Assignment -1

Assignment Date	18 September 2022
Student Name	Rashmi AB
Student Roll Number	310819104067
Maximum Marks	2 Marks

# **PDF LINK:** ■ Assignment\_1 Rashmi AB.pdf



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

#### 7. Concatenate 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])
np.concatenate((a,b),axis=0)

Out[ ]:

array([1, 2, 3, 4, 5, 6])
```

### **Pandas**

#### 8. Create a dataframe with 3 rows and 2 columns

In 1 1:

2023-01-24 00:00:00 2023-01-25 00:00:00 2023-01-26 00:00:00 2023-01-27 00:00:00 2023-01-28 00:00:00

2823-01-28 00:00:00 2022-01-38 00:00:00 2023-01-31 00:00:00 2023-02-01 00:00:00 2023-02-02 00:00:00 2023-02-03 00:00:00 2023-02-04 00:00:00 2023-02-05 00:00:00 2023-02-06 00:00:00 2023-02-06 00:00:00 2023-02-06 00:00:00 2023-02-06 00:00:00 2023-02-08 00:00:00 2023-02-08 00:00:00

```
import pandas as pd

d-{"names":["Manhal", "abdul", "rahim"], "app":[20,40,30])

dr-pd.DataFrane(d)

df

Cut[]:

names age

0 Rashmi 20

1 abdul 40

2 rahim 30
```

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

In [ ]:

p=pd.date_range[atsrt="1-1-2023",end="2-10-2023"]

for i in p:
    print(i)

2023-01-01 00:00:00
2023-01-02 00:00:00
2023-01-03 00:00:00
2023-01-04 00:00:00
2023-01-05 00:00:00
2023-01-06 00:00:00
2023-01-09 00:00:00
2023-01-09 00:00:00
2023-01-10 00:00:00
2023-01-10 00:00:00
2023-01-15 00:00:00
2023-01-15 00:00:00
2023-01-16 00:00:00
2023-01-17 00:00:00
2023-01-18 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-19 00:00:00
2023-01-20 00:00:00
2023-01-21 00:00:00
2023-01-21 00:00:00
2023-01-22 00:00:00
2023-01-24 00:00:00
2023-01-24 00:00:00
2023-01-24 00:00:00
2023-01-24 00:00:00
```



## 10. Create 2D list to DataFrame

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

```
In []:
import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
pd.DataFrame(lists)

Out[]:

0  1 2
0  1 aaa 22
1  2 bbb 25
2  3 ccc 24
```