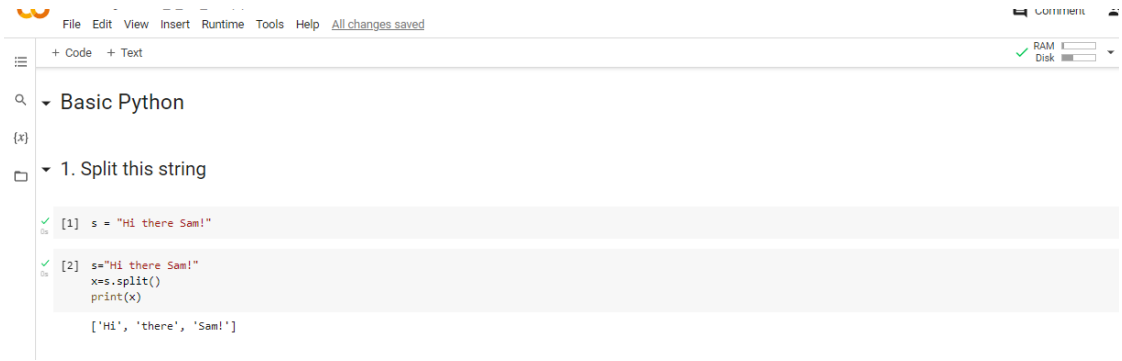
Assignment 1

Assignment Date	9 September 2022
Student Name	A.Sivalakshmi
Student Roll Number	962719106032
Maximum Marks	2Marks

1.Split this string

Solution:

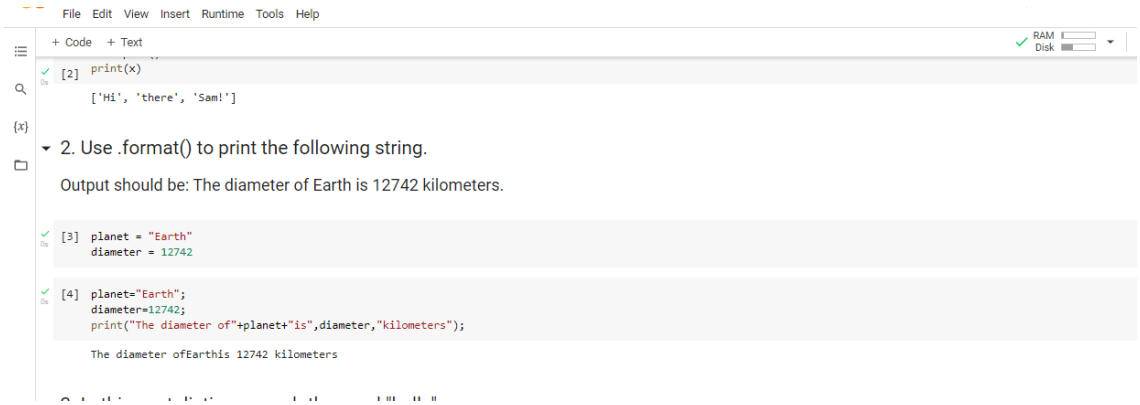
```
s="Hi there Sam!"

x=s.split()
print(x)
```



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

Solution:

```
planet="Earth";
diameter=12742;
print("The diameter of"+planet+"is",diameter,"kilometers");
```



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

Solution:

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

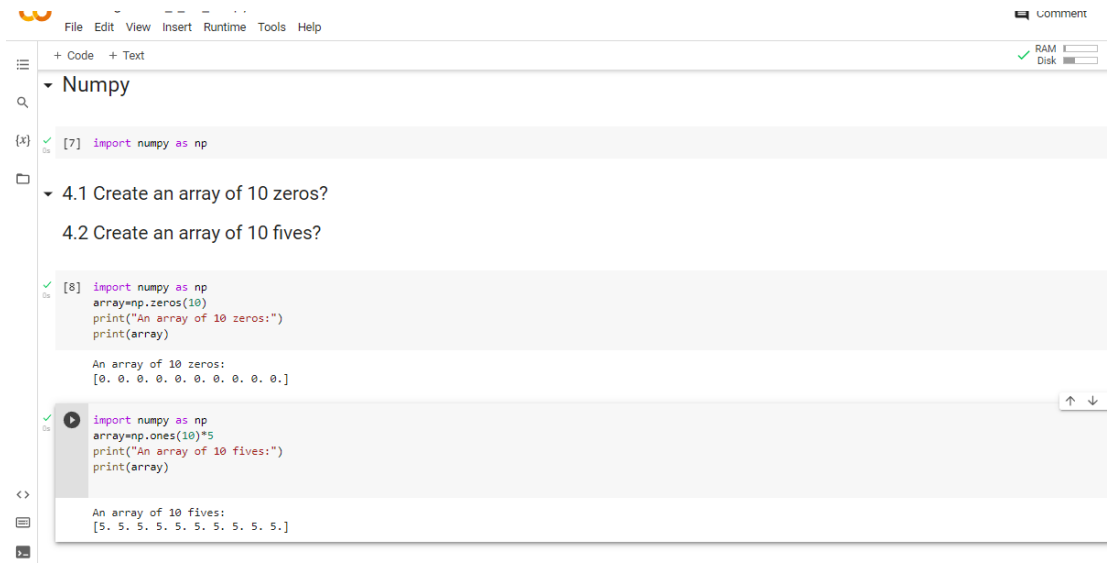
4.Create an array of 10 zeros?

Create an array of 10fives?

Solution:

```
import numpy as np
array=np.zeros(10)
print("An array of 10 zeros:")
print(array)
import numpy as np
array=np.ones(10)*5
```

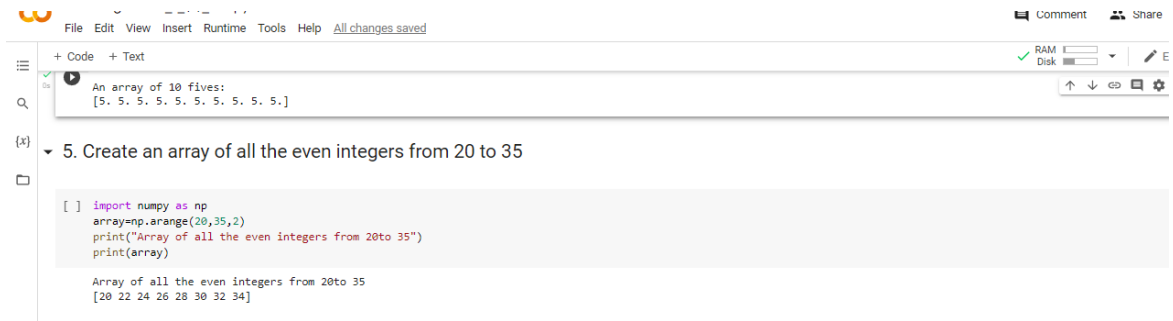
```
print("An array of 10 fives:")
print(array)
```



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

Solution:

```
import numpy as np
array=np.arange(20,35,2)
print("Array of all the even integers from 20to 35")
print(array)
```

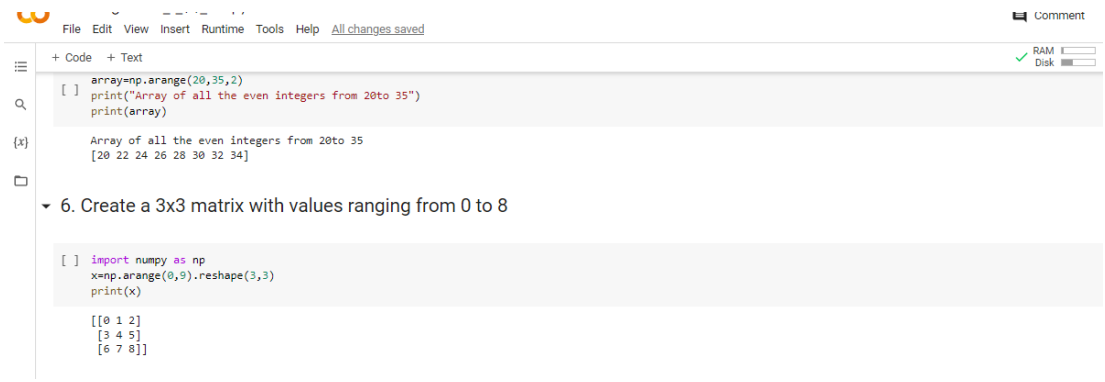


6.Create a 3*3 matrix with values ranging from 0 to 8

Solution:

```
import numpy as np
x=np.arange(0,9).reshape(3,3)
```

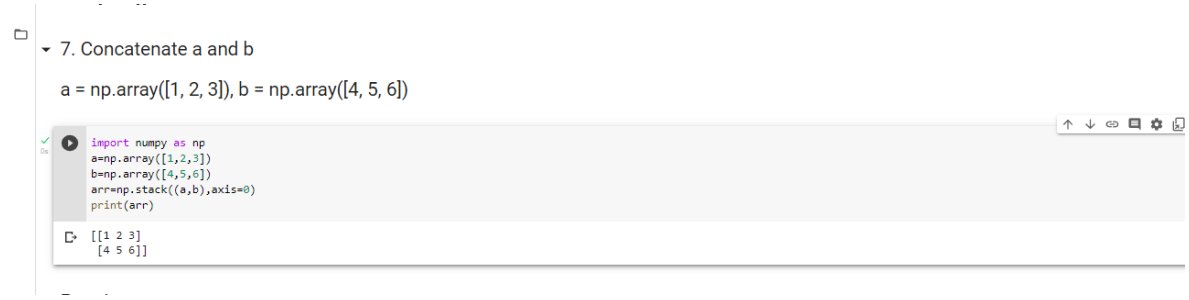
```
print(x)
```



7.Concatenate a and b

Solution:

```
import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
arr=np.stack((a,b),axis=0)
print(arr)
```



8.create a dataframe with 3rows and 2columns

Solution:

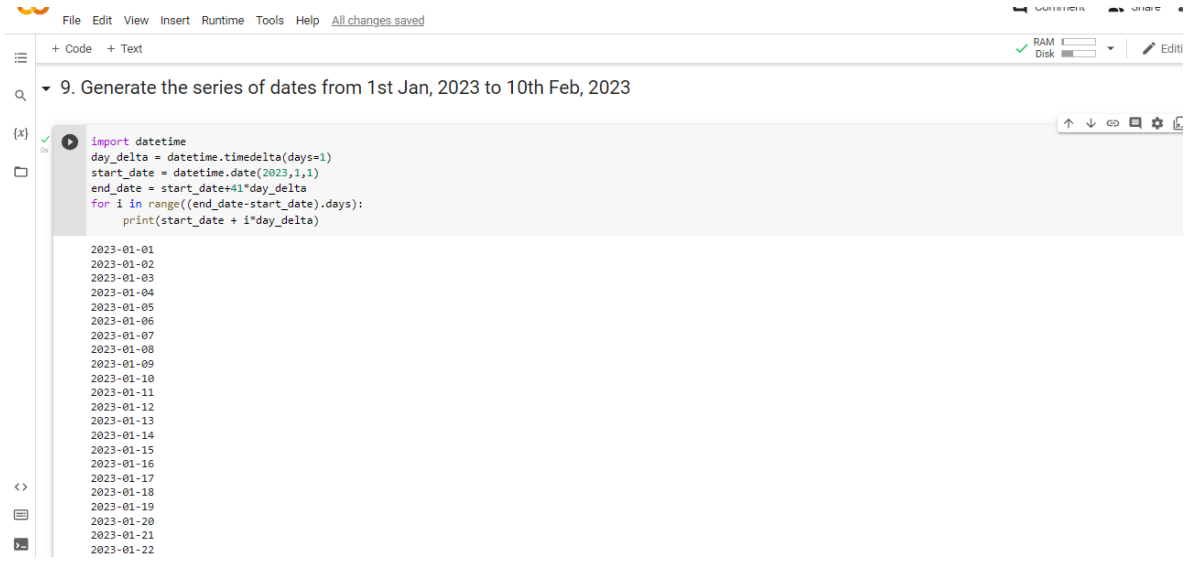
```
import pandas as pd


data=[['tom',10],['nick',15],['juli',14]]
```

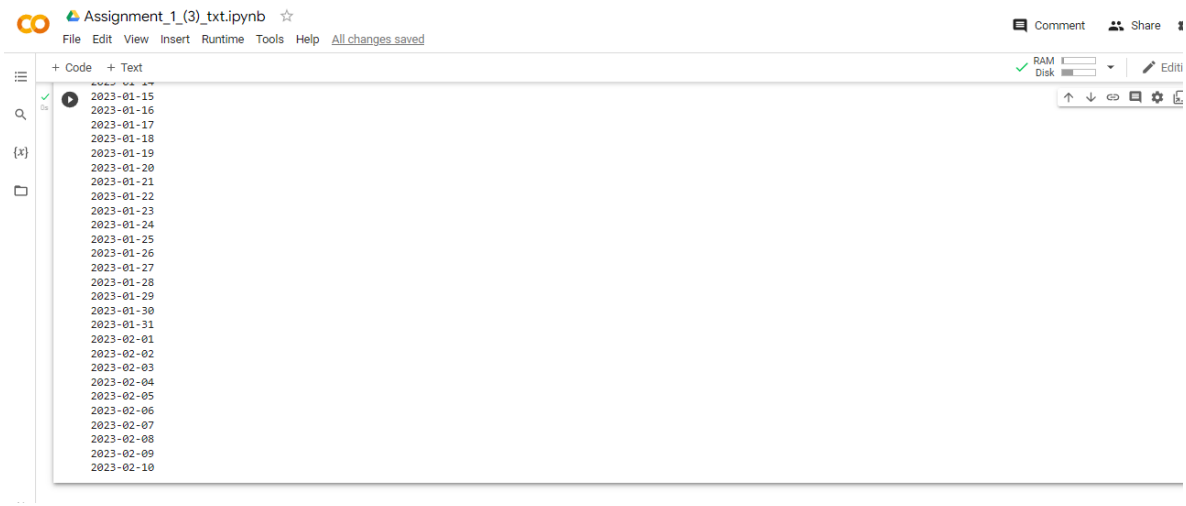
```
df=pd.DataFrame(data,columns=['Name','Age'])
df
```

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

Solution:

```
import datetime
day_delta = datetime.timedelta(days=1)
start_date = datetime.date(2023,1,1)
end_date = start_date+41*day_delta
for i in range((end_date-start_date).days):
     print(start_date + i*day_delta)
```





10.Create 2D list to DataFrame

Solution:

```
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
df=pd.DataFrame(lists,columns=['Number',"Letter",'Number'])
print(df)
```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10. Create 2D list to DataFrame
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
[14] lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
df=pd.DataFrame(lists,columns=['Number',"Letter",'Number'])
print(df)
Number Letter Number
0 1 aaa 22
1 2 bbb 25
2 3 ccc 24
+ Code
+ Text