Assignment Date	09 september 2022
Student Name	M.Bharat
Student Roll Number	962719106006
Maximum Mark	2 marks

1. Split this string

```
s = "Hithere Sam"
solution:

string="Hi there sam!"
print(string.split())
```

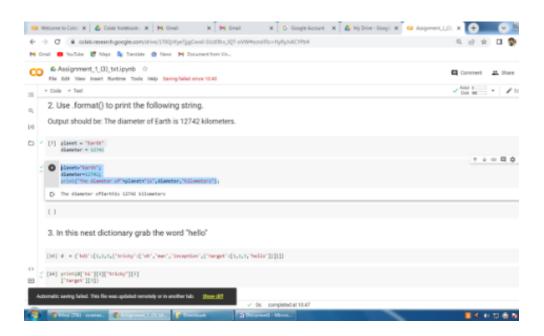


2. Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

```
planet = "Earth"
diameter = 12742
solution:

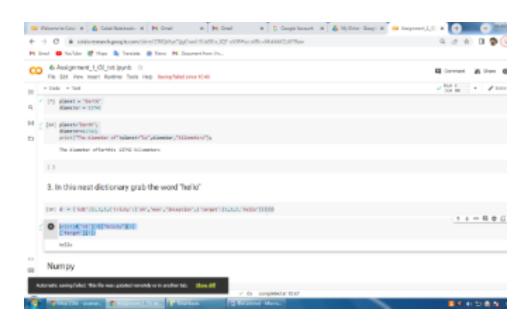
planet="Earth";
diameter=12742;
print("The diameter of"+planet+"is", diameter, "kilometers")
```



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

```
d = {'kd1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello
']}]}
solution:
```

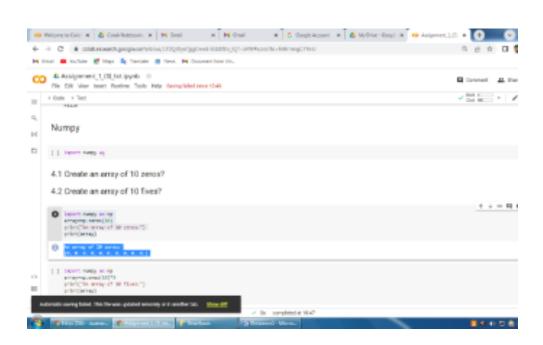
```
print(d['k1'][3]["tricky"][3]
['target'][3])
```



4.1 Create an array of 10 zeros?

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

print(array)

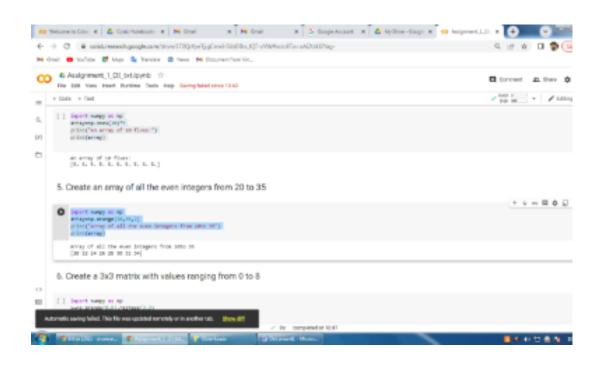


4.2 Create an array of 10 fives?

Solution:

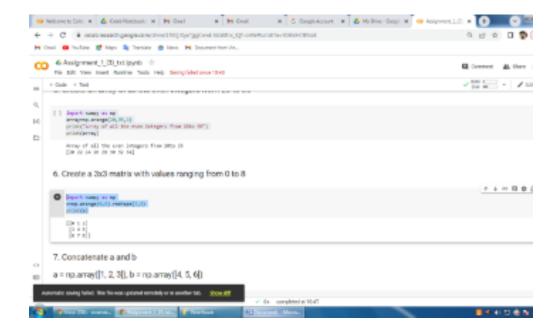
5. Create an array of all the even integers from 20 to 35 Solution:

```
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 3x3 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 a = np.array([1, 2, 3]), b = np.array([4, 5, 6])

Solution:

```
import numpy as np

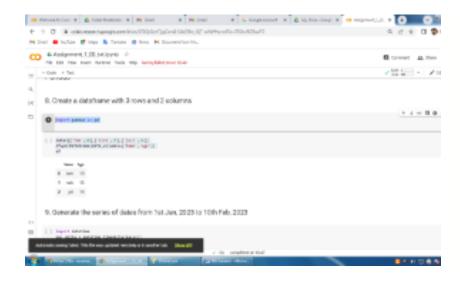
a=np.array([1,2,3])
b=np.array([4,5,6])
arr=np.stack((a,b),axis=0)
print(arr)

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```

8. Create a dataframe with 3 rows and 2 columns

Solution:

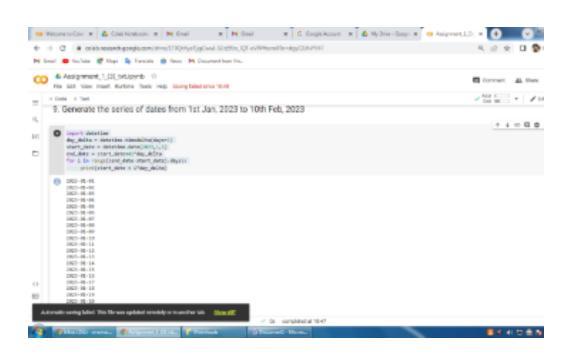
```
import pandas as pd
data=[['tom',10],['nick',15],['juli',14]]
df=pd.DataFrame(data,columns=['Name','Age'])
df
```



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:

```
df=pd.DataFrame(lists,columns=['Number',"Letter",'Number'])
print(df)
```

