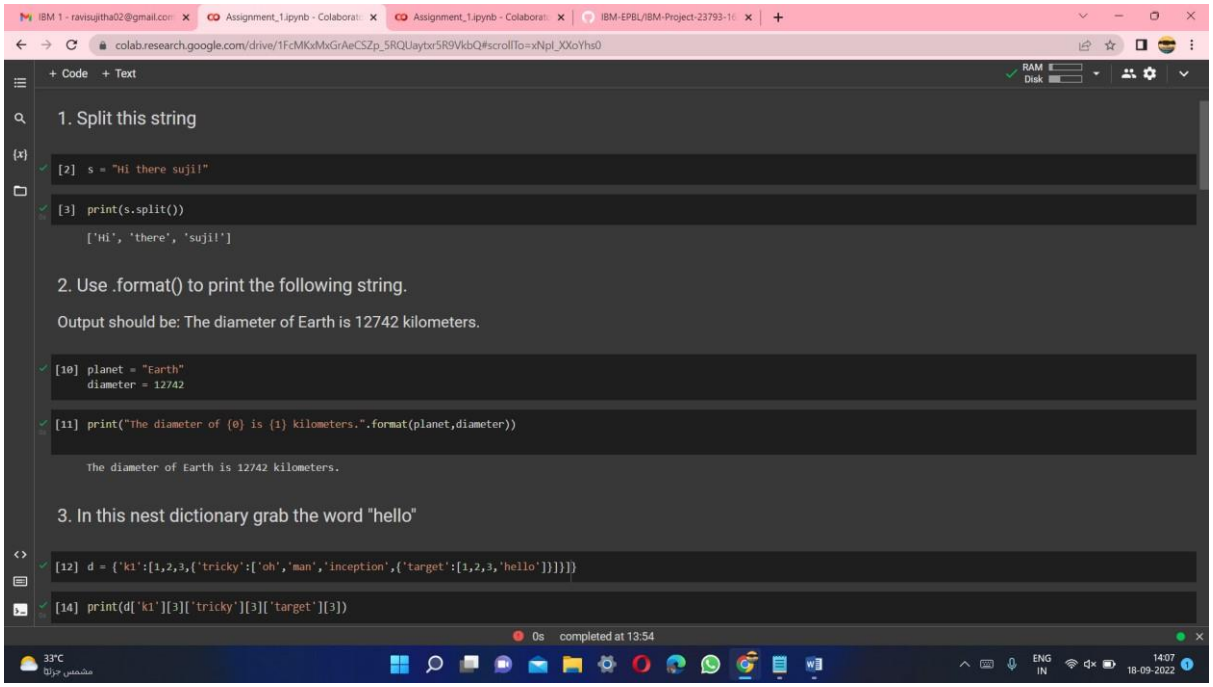
Assignment submission	10 October 2022
Student Name	Kameshwari.R
Student Roll Number	951920LCS02
Maximum Marks	2 Marks



1. Split this string

```
[2] s = "Hi there suji!"
```

```
[3] print(s.split())
```

```
['Hi', 'there', 'suji!']
```

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

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

```
[10] planet = "Earth"
     diameter = 12742
```

```
[11] print("The diameter of {0} is {1} kilometers.".format(planet,diameter))
```

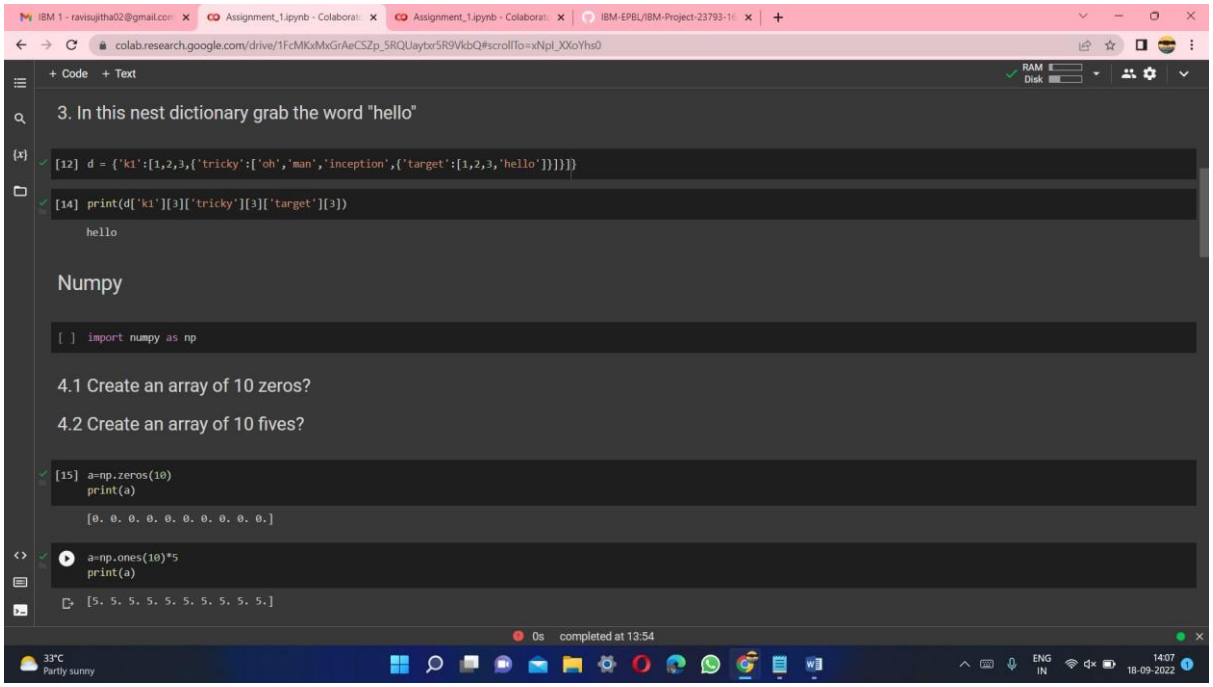
```
The diameter of Earth is 12742 kilometers.
```

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

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

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

0s completed at 13:54



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

```
hello
```

Numpy

```
[ ] import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

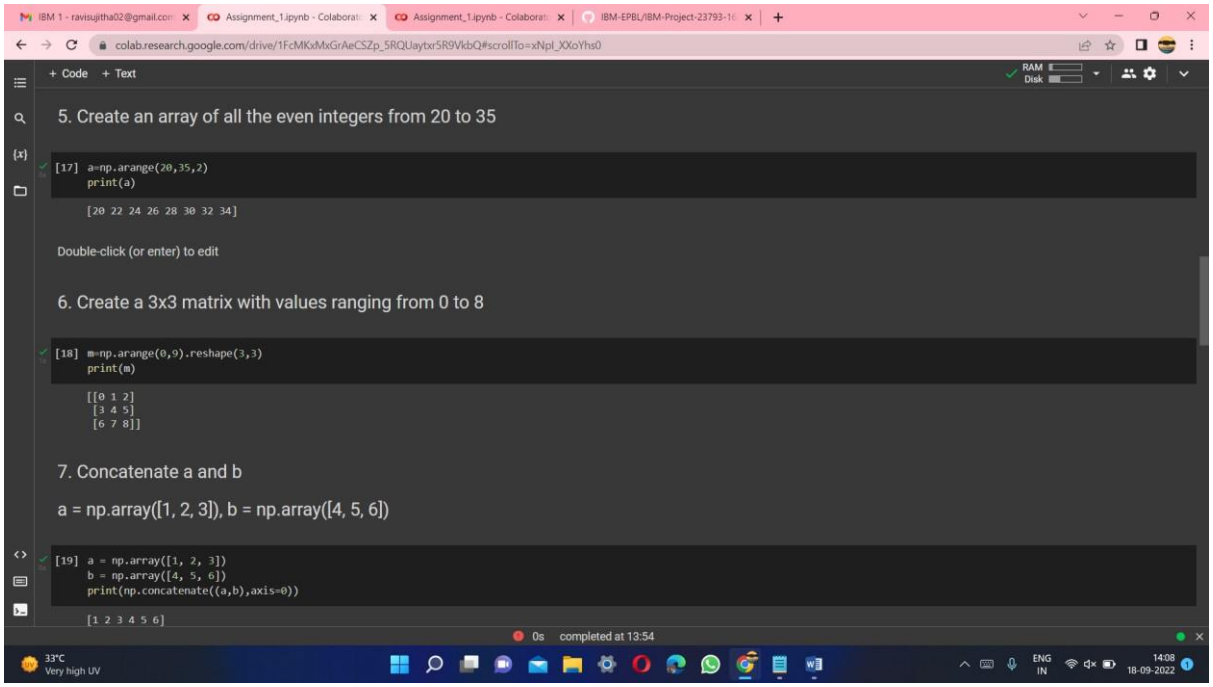
```
[15] a=np.zeros(10)
     print(a)
```

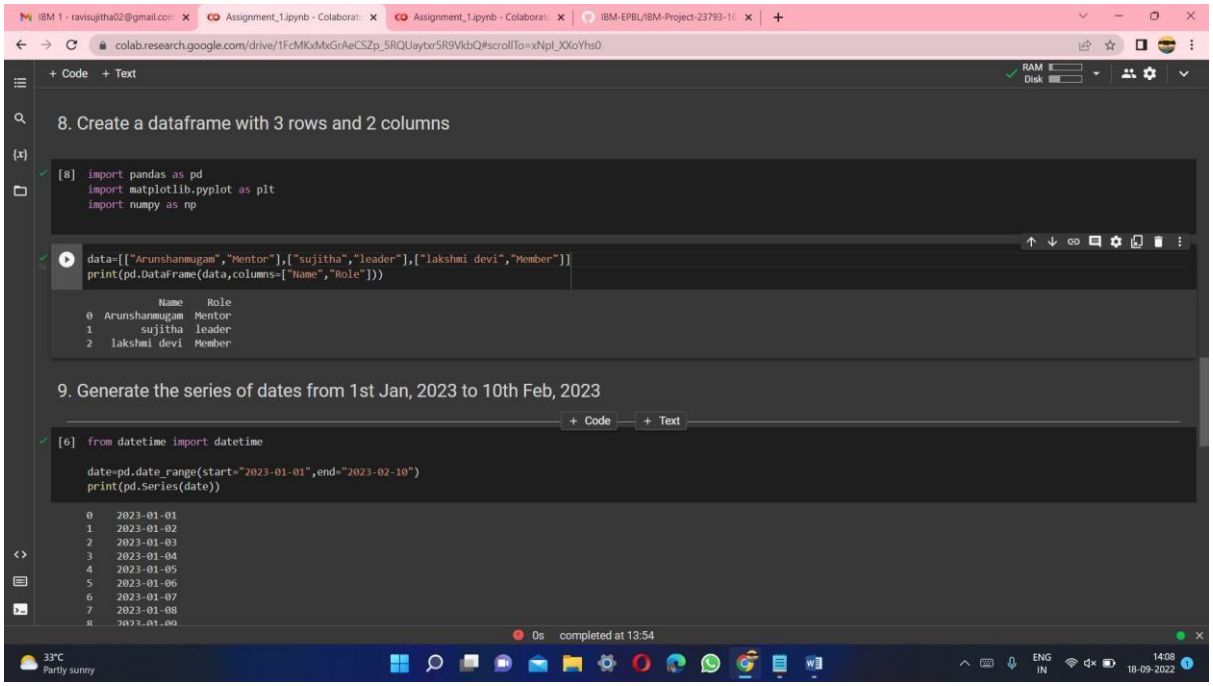
```
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

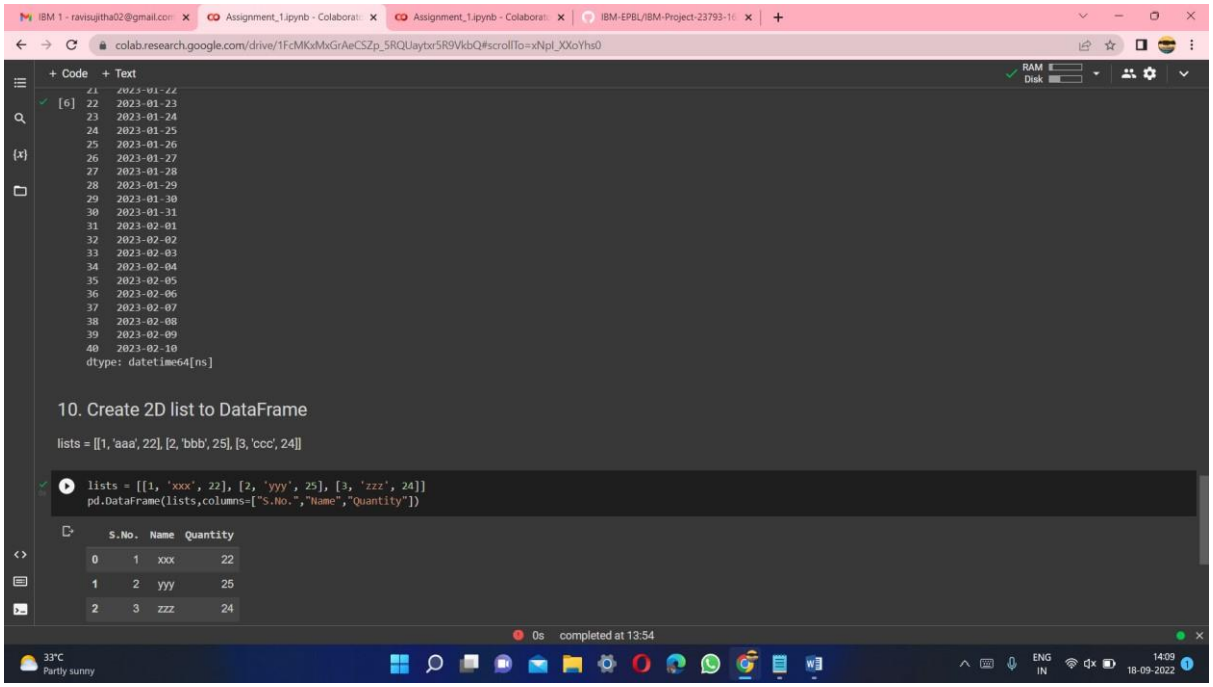
```
a=np.ones(10)*5
print(a)
```

```
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

0s completed at 13:54


5. Create an array of all the even integers from 20 to 35
[17] a=np.arange(20,35,2)
print(a)
[20 22 24 26 28 30 32 34]
Double-click (or enter) to edit
6. Create a 3x3 matrix with values ranging from 0 to 8
[18] m=np.arange(0,9).reshape(3,3)
print(m)
[[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])
[19] 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]
completed at 13:54


8. Create a dataframe with 3 rows and 2 columns
[8] import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
data=[["Arunshanmugam","Mentor"],["sujitha","leader"],["lakshmi devi","Member"]]
print(pd.DataFrame(data,columns=["Name","Role"]))
Name Role
0 Arunshanmugam Mentor
1 sujitha leader
2 lakshmi devi Member
9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023
[6] from datetime import datetime
date=pd.date_range(start="2023-01-01",end="2023-02-10")
print(pd.Series(date))
0 2023-01-01
1 2023-01-02
2 2023-01-03
3 2023-01-04
4 2023-01-05
5 2023-01-06
6 2023-01-07
7 2023-01-08
completed at 13:54


IBM 1 - ravisujitha02@gmail.com
Assignment_1.ipynb - Colaborat
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IBM-EPBL/IBM-Project-23793-16
colab.research.google.com/drive/1FcMKxMxGrAeCSZp_5RQUaytxr5R9VkbQ#scrollTo=xNpI_XXoYhs0
+ Code
+ Text
RAM
Disk
[6]
21 2023-01-22
22 2023-01-23
23 2023-01-24
24 2023-01-25
25 2023-01-26
26 2023-01-27
27 2023-01-28
28 2023-01-29
29 2023-01-30
30 2023-01-31
31 2023-02-01
32 2023-02-02
33 2023-02-03
34 2023-02-04
35 2023-02-05
36 2023-02-06
37 2023-02-07
38 2023-02-08
39 2023-02-09
40 2023-02-10
dtype: datetime64[ns]
10. Create 2D list to DataFrame
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
lists = [[1, 'xxx', 22], [2, 'yyy', 25], [3, 'zzz', 24]]
pd.DataFrame(lists,columns=["S.No.","Name","Quantity"])
S.No. Name Quantity
0 1 xxx 22
1 2 yyy 25
2 3 zzz 24
0s completed at 13:54
33°C
Partly sunny
ENG
IN
14:09
18-09-2022