

Assignment submission	10 October 2022
Student Name	Sujitha.R
Student Roll Number	951919CS103
Maximum Marks	2 Marks

```

1. Split this string

[2] s = "Hi there sujil!"

[3] print(s.split())

['Hi', 'there', 'sujil!']

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])
  
```

```

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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.]
  
```

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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]
```

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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
8    2023-01-09
```

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RAM
Disk

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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, 'aad', 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

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