

Assignment -1

Python Programming

Assignment Date	08 September 2022
Student Name	Ms.S Ragavi
Student Roll Number	510119104016
Maximum Marks	2 Marks

Basic Python

1. Split this string

```
s = "Hi there Sam!"
```

```
s="Hi there Sam!"
```

```
s=s.split()
```

```
print(s);
```

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

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

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

```
planet = "Earth"
```

```
diameter = 12742
```

```
planet="Earth"
```

```
diameter=12742
```

```
print('The diameter of {} is {} kilometers'.format(planet,diameter));
```

The diameter of Earth is 12742 kilometers

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

```
d =
```

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

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

```
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?

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

An array of 10 zeros:
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

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

An array of 10 fives:
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]

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

```
import numpy as np
array=np.arange(20,36,2)
print("Array of all the even integers from 20 to 35")
print(array)
```

Array of all the even integers from 20 to 35
[20 22 24 26 28 30 32 34]

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

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

```
[[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])

```
import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
np.concatenate((a,b))
```

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

Pandas

8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd
```

```
import pandas as pd
data={"A":[10,20,30],"B":[40,50,60]}
df=pd.DataFrame(data)
print(df)
```

	A	B
0	10	40
1	20	50
2	30	60

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

```
import pandas as pd
x=pd.date_range(start='1-1-2023',end='10-2-2023',freq='5H')
for val in x:
    print(val)
```

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10. Create 2D list to DataFrame

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

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

lists=[[1,'aaa',22],[2,'bbb',25],[3,'ccc',24]]
df=pd.DataFrame(lists,columns=['S.No', 'Name', 'Age'])
print(df)
```

	S.No	Name	Age
0	1	aaa	22

1	2	bbb	25
2	3	ccc	24