

**Assignment -1**  
Python Programming

Assignment Date	19 September 2022
Student Name	MS. M. Priyadharshini
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Maximum Marks	2 Marks

```
[ ] # 1)split this string:  
s="Hi there San!"  
print(s.split())
```

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

```
[ ] # 2)use .format() to print the foll  
planet="Earth"  
diameter=12742  
print("The diameter of {planet} is
```

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

```
[ ] # 3)  
d={'k1':[1,2,3,{'tricky':['oh','mar  
print(d['k1'][3]['tricky'][3]['targ
```

```
hello
```

```
[ ] # Numpy  
# 4.1) Create an array of 10 zeros:  
import numpy as np  
array=np.zeros(10)  
print(array)
```

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

✓ [8] # 4.2) Create an array of 10 fives:  
0s  
`import numpy as np`  
`array=np.ones(10)*5`  
`print(array)`

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

✓ [9] # 5) Array of all even integers from 20 to 35:  
0s  
`import numpy as np`  
`array=np.arange(20,35,2)`  
`print(array)`

➞ [20 22 24 26 28 30 32 34]

✓ [10] # 6) create a 3x3 matrix values ranging from 0 to 9:  
0s  
`import numpy as np`  
`b=np.arange(0,9).reshape(3,3)`  
`print(b)`

```
[ ] # 7)concatenate a and b:  
a=np.array([1,2,3])  
b=np.array([4,5,6])  
c=np.concatenate((a,b),axis=None)  
print(c)
```

```
[1 2 3 4 5 6]
```

```
[ ] # pandas  
# 8)create a dataframe using 3rows  
import pandas as pd  
data=[1,2],[4,5],[7,8]  
df=pd.DataFrame(data, columns=['a',  
df
```

	a	b
0	1	2

```
[ ] # 9)Generate the series of dates fr
import pandas as pd
df=pd.date_range(start='1/1/2023',e
df
```

```
[15] # 10) create 2D list to DataFrame:
import pandas as pd
list=[[1,'aaa',22],[2,'bbb',25],[3,
df=pd.DataFrame(list,columns=("no",
df
```

	no	string	int
--	----	--------	-----

0	1	aaa	22
---	---	-----	----

1	2	bbb	25
---	---	-----	----

2	3	ccc	24
---	---	-----	----

```
'2023-10-02'],
```

```
dtype='datetime64[ns]',
length=275, freq='D')
```