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ASSIGNMENT-1

```
[1]  #1
     def p_d():
         name = "MOHANTY PRATHAM"
         age = 20
         print("Name: {}\nAge: {}".format(name, age))
     p_d()
```

```
Name: MOHANTY PRATHAM
Age: 20
```

```
#2
X = "Datascience is used to extract meaningful insights."
split_X = X.split()
print(split_X)
```

```
['Datascience', 'is', 'used', 'to', 'extract', 'meaningful', 'insights.']
```

```
[3]  #3
     def multiple(a, b):
         return a * b
     c = multiple(9, 10)
     print(c)
```

```
90
```

```
#4
States= {'Andhra Pradesh' : 'Amaravati', 'Maharashtra' : 'Mumbai', 'Odisha':'Bhubaneswar',
 'India':'delhi','west bengal':'kolkata'}
print(States)
print(States.keys())
print(States.values())
```

```
{'Andhra Pradesh': 'Amaravati', 'Maharashtra': 'Mumbai', 'Odisha': 'Bhubaneswar', 'India': 'delhi', 'west bengal': 'kolkata'}
dict_keys(['Andhra Pradesh', 'Maharashtra', 'Odisha', 'India', 'west bengal'])
dict_values(['Amaravati', 'Mumbai', 'Bhubaneswar', 'delhi', 'kolkata'])
```

[8]
```
#5
def createList(n1, n2):
 return list(range(n1, n2+1))
n1, n2=1, 1000
print(createList(1,1000))
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
```

```
#6
import numpy as np
dim = 4
identity_matrix=np.identity(dim, dtype="int")
print(identity_matrix)
```

```
[[1 0 0 0]
 [0 1 0 0]
 [0 0 1 0]
 [0 0 0 1]]
```

[10]
```
#7
import numpy as np
x=np.arange(1,10).reshape(3,3)
print(x)
```

```
[[1 2 3]
 [4 5 6]
 [7 8 9]]
```

```
#8
import numpy as np
arr1=[2, 3, 4, 5]
arr2=[6, 7, 8, 9]
sum = np.add(arr1, arr2)
print(sum)
```

```
[ 8 10 12 14]
```

```python
#9
from datetime import datetime
import pandas as pd
start_date=datetime.strptime("2023-02-01", "%Y-%m-%d")
end_date=datetime.strptime("2023-03-01", "%Y-%m-%d")
D='D'
date_list = pd.date_range(start_date, end_date, freq=D)
print(f"Creating list of dates starting from{start_date} to {end_date}")
print(date_list)
```

```
Creating list of dates starting from2023-02-01 00:00:00 to 2023-03-01 00:00:00
DatetimeIndex(['2023-02-01', '2023-02-02', '2023-02-03', '2023-02-04',
               '2023-02-05', '2023-02-06', '2023-02-07', '2023-02-08',
               '2023-02-09', '2023-02-10', '2023-02-11', '2023-02-12',
               '2023-02-13', '2023-02-14', '2023-02-15', '2023-02-16',
               '2023-02-17', '2023-02-18', '2023-02-19', '2023-02-20',
               '2023-02-21', '2023-02-22', '2023-02-23', '2023-02-24',
               '2023-02-25', '2023-02-26', '2023-02-27', '2023-02-28',
               '2023-03-01'],
              dtype='datetime64[ns]', freq='D')
```

```python
#10
import pandas as pd
data={'Brand' : ['RR', 'Range Rover', 'Volvo'], 'Sales' : ['750', '900', '20']}
dataframe = pd.DataFrame.from_dict(data)
print(dataframe)
```

```
          Brand Sales
0            RR   750
1  Range Rover    900
2         Volvo    20
```