```
Name="Chella Nithin"
Age=20
print(Name)
print(Age)
```

```
Chella Nithin
20
```

```
#q2
X="Datascience is used to extract meaningful insights."
print(X.split())
```

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

```
#q3
def multiplication(num1, num2):
 product = num1 * num2
 return product
result = multiplication(2,5)
print(result)
```

```
10
```

```
#Q4
Dictionary = {'Odisa' : 'Bhubaneswar', 'Andhra Pradesh' : 'Amaravati', 'Maharastra' : 'Mumbai',
 'West Bengal' : 'Kolkata', 'Goa' : 'Panaji'}
print(Dictionary)
print(Dictionary.keys())
print(Dictionary.values())
```

```
{'Odisa': 'Bhubaneswar', 'Andhra Pradesh': 'Amaravati', 'Maharastra': 'Mumbai', 'West Bengal': 'Kolkata', 'Goa': 'Panaji'}
dict_keys(['Odisa', 'Andhra Pradesh', 'Maharastra', 'West Bengal', 'Goa'])
dict_values(['Bhubaneswar', 'Amaravati', 'Mumbai', 'Kolkata', 'Panaji'])
```

```
#Q5
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, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43,
```

```
#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]]
```

```
#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 = [1, 2, 3, 4]
arr2 = [5, 6, 7, 8]
sum = np.add(arr1, arr2)
print(sum)
```

```
[ 6  8 10 12]
```

```
#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 from 2023-02-01 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'],
```

```
#10
import pandas as pd
data = {'Brand' : ['Maruti', 'Renault', 'Hyundai'], 'Sales' : ['250', '200', '240']}
dataframe = pd.DataFrame.from_dict(data)
print(dataframe)
```

```
     Brand Sales
0   Maruti   250
1  Renault   200
2  Hyundai   240
```