```
#NAME:B.Vishnu Vardhan REDDY
#REG NO-20BEC1279


#1
Name="Bakka Vishnu Vardhan Reddy"
print(Name)
```

```
Bakka Vishnu Vardhan Reddy
```

```
Age=20
print(Age)
```

```
20
```

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

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

```
#3
def mult(a,b):
    return a*b
mult(7,9)
```

```
63
```

```
states={"MadhyaPradesh":"Bhopal","Karnataka":"Banglore","Bihar":"Patna","Maharasthra":"Mumbai","Kashmir":"Srinagar"}
states
```

```
{'MadhyaPradesh': 'Bhopal',
 'Karnataka': 'Banglore',
 'Bihar': 'Patna',
 'Maharasthra': 'Mumbai',
 'Kashmir': 'Srinagar'}
```

```
#5
l=list(range(0,1001))


import numpy as np


#6
m=np.identity(4)


m
```

```
array([[1., 0., 0., 0.],
       [0., 1., 0., 0.],
       [0., 0., 1., 0.],
       [0., 0., 0., 1.]])
```

```
#7
n=np.arange(1,10).reshape(3,3)


n
```

```
array([[1, 2, 3],
       [4, 5, 6],
       [7, 8, 9]])
```

```
#8
a=np.array([[5,9,1],[8,3,0],[1,5,7]])
b=np.array([[9,1,0],[3,5,2],[2,2,3]])
c=a+b
print(c)
```

```
[[14 10  1]
 [11  8  2]
 [ 3  7 10]]
```

```
import datetime
import pandas as pd
```

```
#9
test_date = datetime.datetime.strptime("01-2-2023", "%d-%m-%Y")
K = 28
date_generated = pd.date_range(test_date, periods=K)
print(date_generated.strftime("%d-%m-%Y"))
```

```
Index(['01-02-2023', '02-02-2023', '03-02-2023', '04-02-2023', '05-02-2023',
       '06-02-2023', '07-02-2023', '08-02-2023', '09-02-2023', '10-02-2023',
       '11-02-2023', '12-02-2023', '13-02-2023', '14-02-2023', '15-02-2023',
       '16-02-2023', '17-02-2023', '18-02-2023', '19-02-2023', '20-02-2023',
       '21-02-2023', '22-02-2023', '23-02-2023', '24-02-2023', '25-02-2023',
       '26-02-2023', '27-02-2023', '28-02-2023'],
      dtype='object')
```

```
#10
dictionary = {'Brand': ['Maruti', 'Renault', 'Hyndai'], 'Sales' : [250, 200, 240]}
d=pd.DataFrame.from_dict(dictionary)
d
```

	Brand	Sales
0	Maruti	250
1	Renault	200
2	Hyndai	240