Basics Program

```
In [14]:   a=10
           a
```

```
Out[14]:   10
```

```
In [16]:   a_10=10
           a
```

```
Out[16]:   10
```

```
In [17]:   8+8
```

```
Out[17]:   16
```

```
In [18]:   #variable
           a=8
           b=8
           a+b
```

```
Out[18]:   16
```

```
In [20]:   a=8
           b=8
           c=a+b
           c
```

```
Out[20]:   16
```

```
In [21]:   a=6
           b=8
           c=9
           d=a+b+c
           d
```

```
Out[21]:   23
```

```
In [22]:   a=8
           b=5
           c=a*b
           c
```

```
Out[22]:   40
```

```
In [23]:   a=16
           b=8
           c=a/b
           c
```

```
Out[23]:   2.0
```

Print Function

```
In [1]:   print('Hello')
```

```
          Hello
```

```
In [2]:   name='priyanka warude'
```

```
In [3]:   print(name)
```

```
          priyanka warude
```

```
In [4]:   print('Trainer name is : ',name)
```

```
          Trainer name is :   priyanka warude
```

In [5]:
```python
name='Priyanka Warude'
age=24
city='pune'
# Trainer name is priyanka warude and she is 24 years old.
print('Trainer name is ',name,'and she is',age,'years old')
```

Trainer name is Priyanka Warude and she is 24 years old

In [6]:
```python
print(f'Trainer name is {name} and she is {age} years old')
```

Trainer name is Priyanka Warude and she is 24 years old

In [9]:
```python
price=566.8958
print('The product price is:{0:2f}',format(price))
```

The product price is:{0:2f} 566.8958

In [12]:
```python
round(price,2)
```

Out[12]: 566.9

In [13]:
```python
print("The product price is:{}",format(round(price,2)))
```

The product price is:{} 566.9

In [25]:
```python
a=20
b=10
print("Addition is:",a+b,"Data Science")
```

Addition is: 30 Data Science

In [28]:
```python
a=50
b=20
c=12
print("Multiplication:",a*b*c,"Machine Learning")
```

Multiplication: 12000 Machine Learning

Input Function

In [15]:
```python
name=input('Enter your name:')
```

Enter your name:priya

In [16]:
```python
name=input('Enter your name:')
age=input('Enter your age:')
print('The type of name is:',type(name))
print('The type of age is:',type(age))
```

Enter your name:priya
Enter your age:24
The type of name is: <class 'str'>
The type of age is: <class 'str'>

In [17]:
```python
name='priya'
age=int(input("Enter your age :"))
age=age+1
print('The type of name is:',type(name))
print('The type of age is:',type(age))
print('age is:',age)
```

Enter your age :24
The type of name is: <class 'str'>
The type of age is: <class 'int'>
age is: 25

In [12]:
```python
a=input("Enter the value:")
b=input("Enter the value:")
a+b
```

Enter the value:8
Enter the value:8

Out[12]: '88'

Range Function

In [20]:
```python
for x in range(1,100):
    print(x,end=' ')
```

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 44 45 4 6 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

In [24]:
```python
for x in range(1,101,2):
    print(x,end='-')
```

1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-35-37-39-41-43-45-47-49-51-53-55-57-59-61-63-65-67-69-71-73-75-77-79-81-83-85-87- 89-91-93-95-97-99-

In [22]:
```python
for x in range(2,101,2):
    print(x,end=' ')
```

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

In [5]:
```python
x=acct=input("Enter your account number: ")
y=name=input("Enter your name: ")
z=pin=input("Enter 4 digit pin: ")
```

Enter your account number: 56
Enter your name: priya
Enter 4 digit pin: 528967

In [6]:
```python
for x in range(5):
    print("Machine Learning")
```

Machine Learning
Machine Learning
Machine Learning
Machine Learning
Machine Learning

In [8]:
```python
for x in range(5):
    print("my name is priya I am machine learning Engineer work in TCS" )
```

my name is priya I am machine learning Engineer work in TCS
my name is priya I am machine learning Engineer work in TCS
my name is priya I am machine learning Engineer work in TCS
my name is priya I am machine learning Engineer work in TCS
my name is priya I am machine learning Engineer work in TCS

In [30]:
```python
for x in range(5):
    a=50
    b=12
    c=20
    x=a*b*c
    print("Multiplication:",x,"Machine Learning")
```

Multiplication: 12000 Machine Learning
Multiplication: 12000 Machine Learning
Multiplication: 12000 Machine Learning
Multiplication: 12000 Machine Learning
Multiplication: 12000 Machine Learning