```python
x=int(input("enter a value for x"))
y=int(input("enter a value for y"))
z=x+y
print(z)
```

```
enter a value for x20
enter a value for y30
50
```

```python
mark=45
print(mark<=60)
```

```
True
```

```python
a=80
print(a>30 and a<60)
```

```
False
```

```python
x=5
print(x>6 or x<4)
```

```
False
```

```python
5<3
```

```
False
```

```python
not(False)
```

```
True
```

```python
not(5<3)
```

```
True
```

```python
x=100
x=x+10
print(x)
```

```
110
```

```python
x=100
x-=10
print(x)
```

```
90
```

```python
print(6&3)
```

```
2
```

```
print(6|3)
```

```
7
```

```
print(~1)
```

```
-2
```

```
print(6^3)
```

```
5
```

```
print(3<<2)
```

```
12
```

```
print(8>>2)
```

```
2
```

```
a=10
```

```
id(a)
```

```
135199521833488
```

```
b=20
```

```
id(b)
```

```
135199521833808
```

```
c=10
```

```
id(c)
```

```
135199521833488
```

```
c=10
```

```
id(c)
```

```
135199521833488
```

```
a is not b
```

```
True
```

```python
a= "i am learning python"
b= "java"


print(b in a)
```

```
    False
```

```python
x=int(input("enter a value for x"))
y=int(input("enter a value for y"))
if(x>y):
  print("x is greater")
else:
  print("y is greater")
```

```
    enter a value for x50
    enter a value for y75
    y is greater
```

```python
x=int(input("enter a value for x"))
y=int(input("enter a value for y"))
z=int(input("enter a value for z"))
if(x>y and x>z):
  print("x is greater")
elif(y>x and y>z):
  print("y is greater")
else:
  print("z is greater")
```

```
    enter a value for x35
    enter a value for y46
    enter a value for z23
    y is greater
```

```python
for index in range(10):
  print(index)
  print(index+10)
```

```python
mark=float(input("enter a mark"))
if(mark>=90 and mark<=100):
  print("S Grade")
elif(mark>=80 and mark<90):
  print("A Grade")
elif(mark>=70 and mark<80):
  print("B grade")
elif(mark>=60 and mark<70):
  print("c grade")
else:
  print("Fail")
```

```
    enter a mark75
    B grade
```

range() -> it generate numbers starting from 0 Ending number n-1