

```
# if
# if if
# if esle
# if elif
# if elif else
```

▼ IF condition

```
if "condition":
```

```
    # body of if condition
```

```
# if "condition":
#     #body of the if condition
```

```
if True:
    print("body of if condition")

    body of if condition
```

```
if False:
    print("body of if condition")
```

```
if False:
    print("body of if condition")
```

```
print("out of if condition")
print(10+20)
```

```
out of if condition
30
```

```
if True:
    print("body of if condition")
print("out of if condition")
print(10+20)
```

```
body of if condition
out of if condition
30
```

```
num = 10
if num > 5: # 10> 5 --- True
    print("Num is greater")
```

```
Num is greater
```

```
num = int(input("enter a number which want to compare with five:"))
if num > 5: # 3>5 ----False
    print("Num is greater")
print("Process end")
```

```
enter a number which want to compare with five:3
Process end
```

```
num = int(input("enter a number which want to compare with five:"))
if num > 5: # 30 > 5 ----True
    print("Num is greater")
print("Process end")
```

```
enter a number which want to compare with five:30
Num is greater
```

Process end

```
n = 2
if n > 0:
    print("positive number")
```

positive number

```
n = -1
if n > 0:
    print("positive number")
print("Negative number")
```

Negative number

```
n = int(input("enter a nuber"))
if n == 0:
    print("Equal")
```

enter a nuber0
Equal

```
n = int(input("enter a nuber"))
if n == 0:
    print("Equal")
print("not equal")
```

enter a nuber12
not equal

```
num = int(input("enter a number which want to compare with five:"))
if num > 5: # 10 > 5
```

```
print("Num is greater")
#print("Process end")

enter a number which want to compare with five:10
Num is greater

num = int(input("enter a number which want to compare with five:"))
if num > 5:

    print("Num is greater")
print("Process end")

enter a number which want to compare with five:3
Process end

v = int(input("enter a number"))
print(type(v))
print(v+2)
#print(v)

enter a number3
<class 'int'>
5
```

▼ If ELSE

```
# if "condition":
#     #Body of If block
# else:
#     #body of else block

num1 = 10
num2 = 20
```

```
if num1 > num2: # 10 > 20 ----False
    print(" num1 is greater")
else:
    print("num2 is greater")

    num2 is greater
```

```
if True:
    print("if block")
else:
    print("else block")

    if block
```

```
if False:
    print("if block")
else:
    print("else block")

    else block
```

```
m = 2
if m > 0: #True ---- 2 > 0
    print("the number is greater than zero")
else:
    print("number is not greater than zero")

    the number is greater than zero
```

```
m = -1
if m > 0: #False ---- -1 > 0
    print("the number is greater than zero")
else:
    print("number is not greater than zero")

    number is not greater than zero
```

```
n = 2
if n > 0:
    print("positive number")
print("Negative number")
```

```
positive number
Negative number
```

```
n = 2
if n > 0:
    print("positive number")
else:
    print("Negative number")
```

```
positive number
```

```
n = 2
if n > 0:
    print("positive number")
else:
    print("Negative number")
```

```
positive number
```

▼ If elif

```
num11 = 20
if num11<30: # 20 < 30 ----- true
    print("num11 is less that 30")
elif num11>10:
    print("num11 is greater than 30")
```

```
num11 is less that 30
```

```
num11 = 20
if num11 > 30: # 20 > 30 ----- False
    print("num11 is greater that 30")
elif num11 > 10:
    print("welcome")
```

```
welcome
```

```
num11 = 20
if num11 > 30: # 20 > 30 ----- False
    print("num11 is greater that 30")
elif num11<10:
    print("num11 is greater than 10")

elif num11==20:
    print("both num11 ans 20 are equal")
```

```
both num11 ans 20 are equal
```

```
b = 10
b1 = 20

if b > b1: # 10 > 20 --- False
    print("b is greater")
else:
    if b1>b:
        print("b1 is greater")
    else:
        if b==10:
            print("b is equal to 10")
```

b1 is greater

▼ If elif and else

```
num1 = int(input("enter a numbr1:"))
num2 = int(input("enter a numbr2:"))
if num1==num2:
    print(" both are eqaul")
elif num1!=num2:
    print(" both are not eqaul")
else:
    print("Terminate")
```

```
enter a numbr1:10
enter a numbr2:10
both are eqaul
```

```
num1 = int(input("enter a numbr1:"))
num2 = int(input("enter a numbr2:"))
if num1==num2: # 10 == 20 -- False
    print(" both are eqaul")
elif num1!=num2: # 10 != 20 --- True
    print(" both are not eqaul")
else:
    print("Terminate")
```

```
enter a numbr1:10
enter a numbr2:20
```


both are not eqaul

```
num1 = int(input("enter a numbr1:"))
num2 = int(input("enter a numbr2:"))
if num1==num2: # 12 == 23 ---- False
    print(" both are eqaul")
elif num1 > num2: # 12 > 23 ----- False
    print(" both are not eqaul")
else:
    print("Terminate")

enter a numbr1:12
enter a numbr2:23
Terminate
```

▼ IF IF

```
d = 12
dd = 20

if d==dd: # 12 ==20 ---false
    print("bothe are equal")
if d>dd: # 12 >20 -- false
    print("d is greater")
```

```
d = 12
dd = 20

if d==dd: # 12 ==20 ---false
    print("bothe are equal")
if d>dd: # 12 >20 -- false
    print("d is greater")
else:
    print("terminate")
```

```
terminate
```

```
d = 12
dd = 20

if d < dd: # 12 < 20 --- True
    print("d is small")
if d < dd: # 12 >20 -- True
    print("dd id greater")
else:
    print("terminate")

    d is small
    dd id greater
```

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