

**Indentation :** It is one of the most important feature in Python. It indicates the block of code.

```
In [1]: if 10>5:
        print("Greater")
```

Greater

```
In [2]: if 10>5:
        print("Greater")
```

```
Cell In[2], line 2
    print("Greater")
    ^
```

**IndentationError:** expected an indented block after 'if' statement on line 1

```
In [ ]:
```

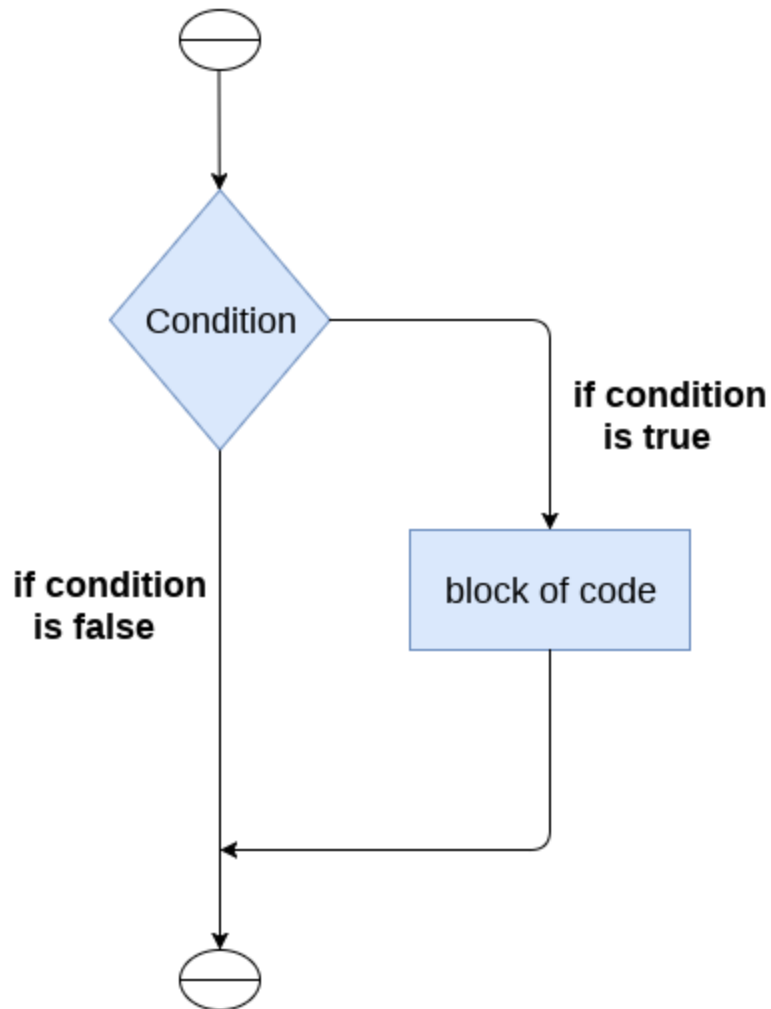
**Conditional Statement :-** It is used to check the flow of control according to the given condition.

- Single/Simple if
- if-else
- Nested if
- if-elif-else

If Statement	The if statement is used to test a specific condition. If the condition is true, a block of code (if-block) will be executed.
If - else Statement	The if-else statement is similar to if statement except the fact that, it also provides the block of the code for the false case of the condition to be checked. If the condition provided in the if statement is false, then the else statement will be executed.
Nested if Statement	Nested if statements enable us to use if ? else statement inside an outer if statement.

**if statement :** The if statement is used to test a particular condition and if the condition is true, it executes a block of code known as if-block.

**Syntax:** `if expression:`  
                   `statement`  
                   `statement`



```
In [3]: n = int(input("Enter a num : "))  
  
if n>10:  
    print('Greater')
```

Greater

```
In [4]: n = int(input("Enter a num : "))  
  
if n>10:  
    print('Greater')
```

```
In [ ]:
```

```
In [ ]:
```

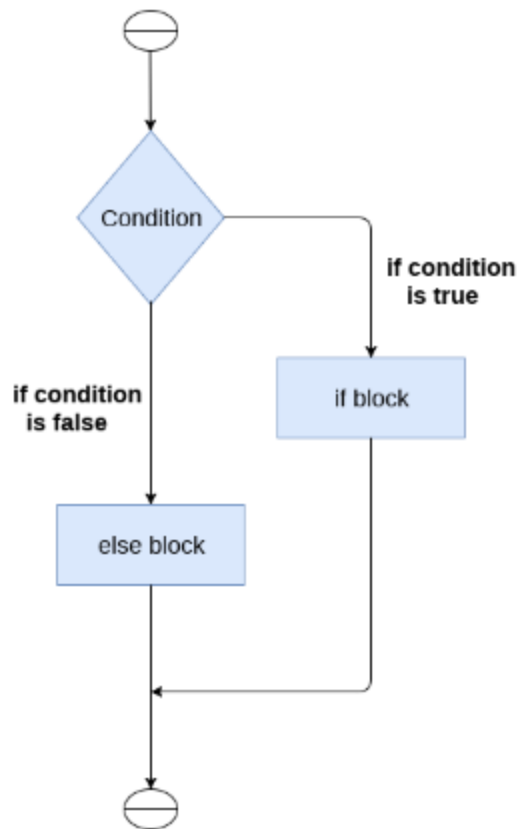
**if-else statement :** If the condition is true, then the if-block is executed. Otherwise, the else-block is executed.

Syntax:  
**if condition:**

```

    #block of statements
else:
    #another block of statements (else-block)

```



```

In [6]: n = int(input("Enter a num : "))

if n%2==0:
    print("Even")
else:
    print("Odd")

```

Odd

```

In [8]: age = int(input("Enter your age : "))

if age>=18 and age<=100:
    print("Yes you can vote")
else:
    print("Chote bacche ho ghar bhago")

```

Chote bacche ho ghar bhago

In [ ]:

**Nested if : to check more than one condition at a time.**

```

Syntax:
if condition:

```

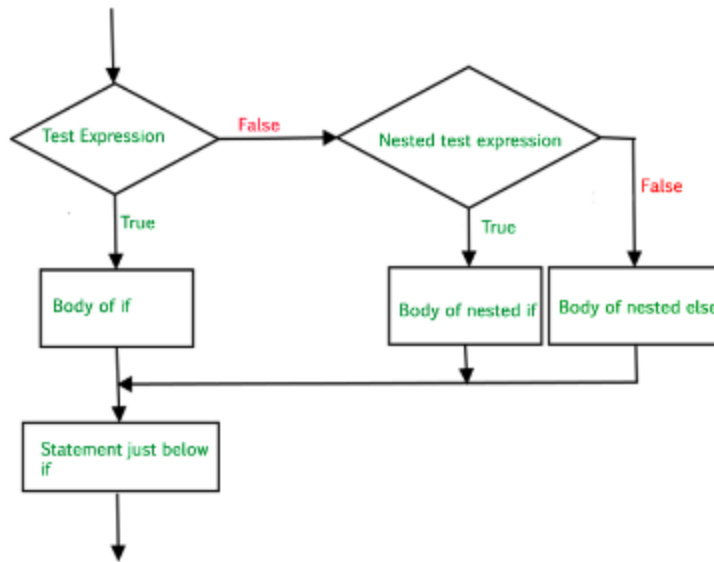
```

# block of statements

if condition:
    # block of statements

else:
    # block of statements
else:
    # block of statements

```



```

In [12]: n = int(input("Enter a number : "))

if n%2==0:
    if n>0:
        print('Even and Positive')
    else:
        print('Even and Negative')
else:
    if n>0:
        print('Odd and Positive')
    else:
        print('Odd and Negative')

```

Odd and Negative

In [ ]:

**if-elif-else:** The elif statement enables us to check multiple conditions and execute the specific block of statements depending upon the true condition among them. We can have any number of elif statements in our program depending upon our need.

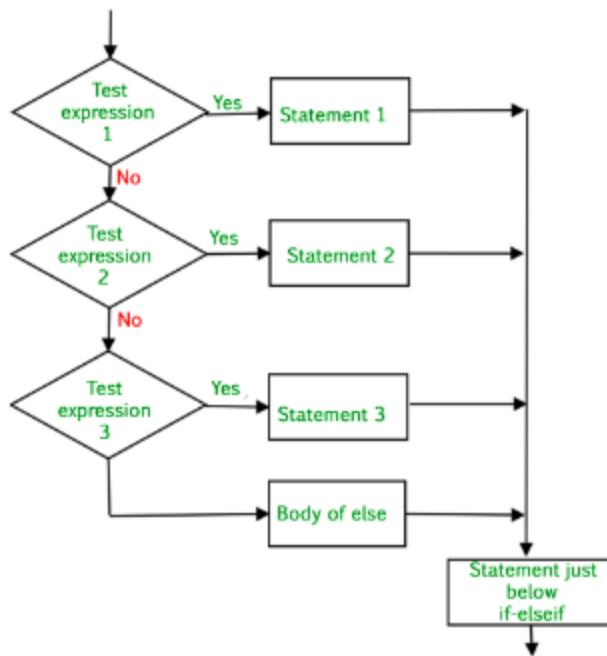
Syntax:

```
if expression 1:  
    # block of statements
```

```
elif expression 2:  
    # block of statements
```

```
elif expression 3:  
    # block of statements
```

```
else:  
    # block of statements
```



```
In [15]: n = int(input("Enter a number : "))
```

```
if n>0:  
    print('Positive')  
elif n<0:  
    print('Negative')  
else:  
    print('Zero')
```

Zero

```
In [ ]:
```

wapp to check whether the entered character is vowel or consonant.

In [ ]:

**wapp to check if the entered character is a alphabet, digit or special character.**

In [ ]:

**A company decided to give 5% bonus to its employees if his/her service is more than 5 years. Ask user for their salary and year of experience and print the net bonus amount.**

In [ ]:

**Q.Wapp to check whether the traingle is Equilateral, isosceles or**

scalene, where the sides are entered by the user.

In [ ]:

**Q. Take values of length and breadth of a rectangle from user and check if it is square or not.**

In [ ]:

**Q.Wapp to check whether the entered character is a alphabet or not.**

In [ ]:

**Q. A student will not be allowed to sit in exam if his/her attendance is less than 75%.**

```
Take following input from user :  
    Number of classes held  
    Number of classes attended.  
And print percentage of class attended  
Is student is allowed to sit in exam or not.
```

In [ ]:

**Q. Take input of age of 3 people by user and determine oldest among them.**

In [ ]: