

15-09-2025

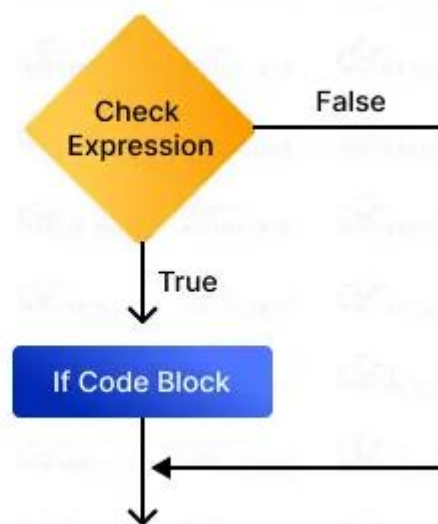
## 1) Conditional statements

whenever we have to check any conditions, either single condition or multiple conditions then we go with conditional statement.

- 1) if
- 2) if else
- 3) if else ladder
- 4) nested if else

### 1)if

**If  
Conditional  
Statement  
Flow  
Control**



if syntax

if(condition):

statements

EX: age = int(input())

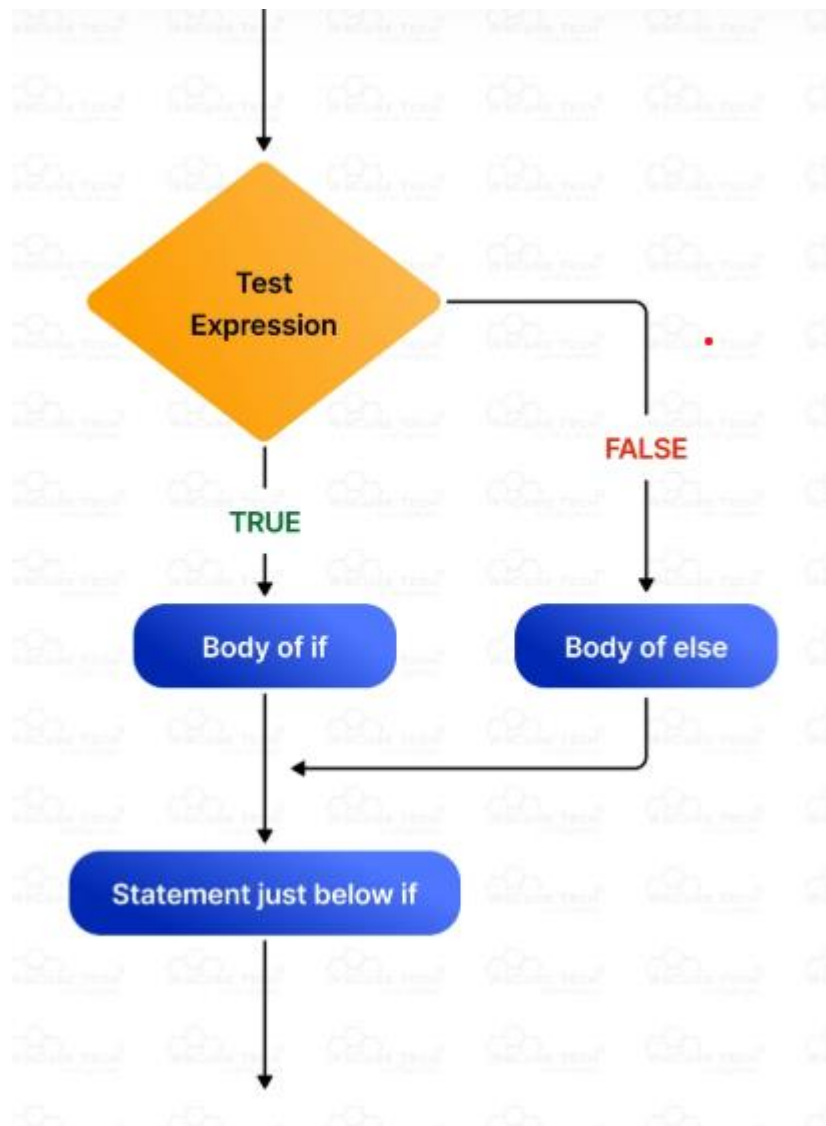
country = input()

if(age>=18 and country=="india"):

print("eligible for voting")

o/p:  
34  
india  
eligible for voting

2)if else



if else syntax

```
if(condition):  
    statements of if  
else:  
    statements of else
```

Ex: age = int(input())

country = input()

```
if(age>=18 and country=="india"):
```

```
    print("eligible for voting")
```

```
else:
```

```
    print("not eligible for voting")
```

o/p:

1) 56

india

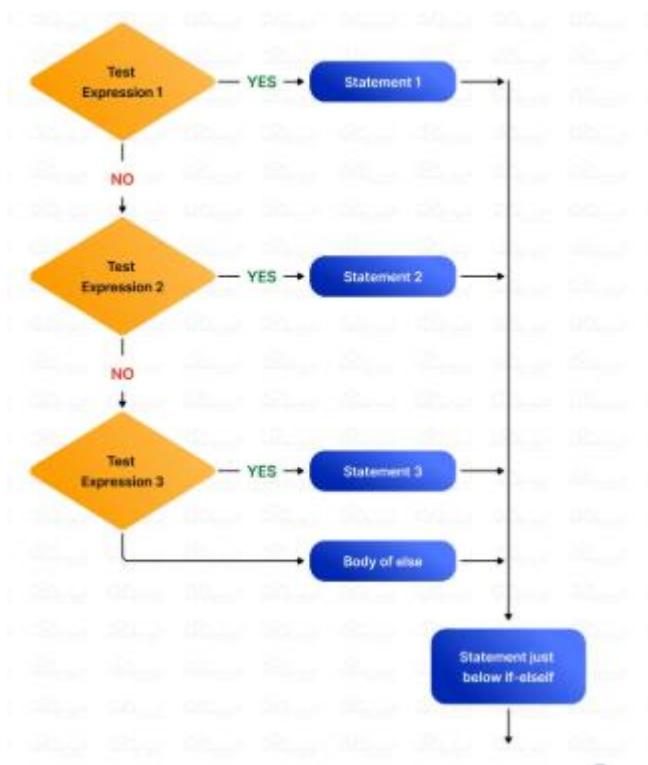
eligible for voting

2) 12

india

not eligible for voting

3)if else ladder



if else ladder syntax

```
if(cond1):
    statements of cond1
else:
    if(cond2):
        statements of cond2
    else:
        if(cond3):
            statements of cond3
        else:
            default statements
```

or

```
if(cond1):
    statements of cond1
elif(cond2):
    statements of cond2
elif(cond3):
    statements of cond3
else:
    default statements
```

Q)WAP to display age group based on their age

1 to 10 - children

11 to 18 - teenage

19 to 40 - adult

above 40 - old age

A) age = int(input("enter your age:"))

```
if(age>=1 and age<=10):  
    print("children")  
elif(age>=11 and age<=18):  
    print("teenage")  
elif(age>=19 and age<=40):  
    print("adult")  
elif(age>=40 and age<=120):  
    print("old age")  
else:  
    print("invaild input")
```

o/p:

- 1) enter your age: 67  
old age
- 2) enter your age: 6  
children
- 3) enter your age: 15  
teenage
- 4) enter your age: 35  
Adult
- 5) enter your age: 140  
invaild input