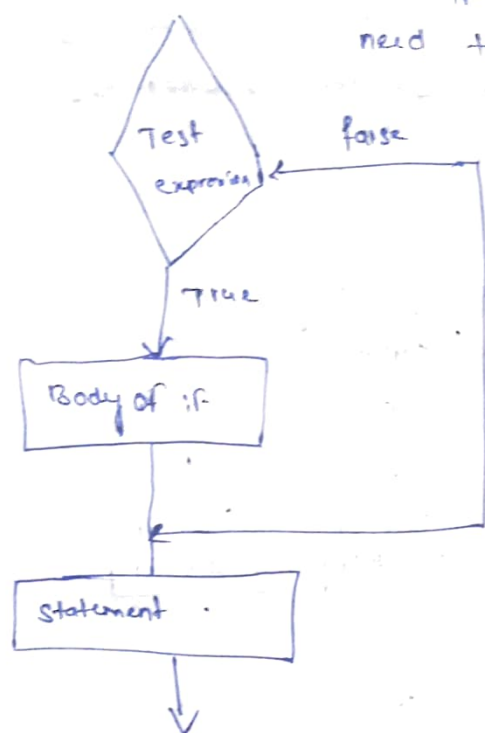


Conditional statement

if condition :-

An if statement is used a block code need to be executed only if a specific condition evaluates to true.

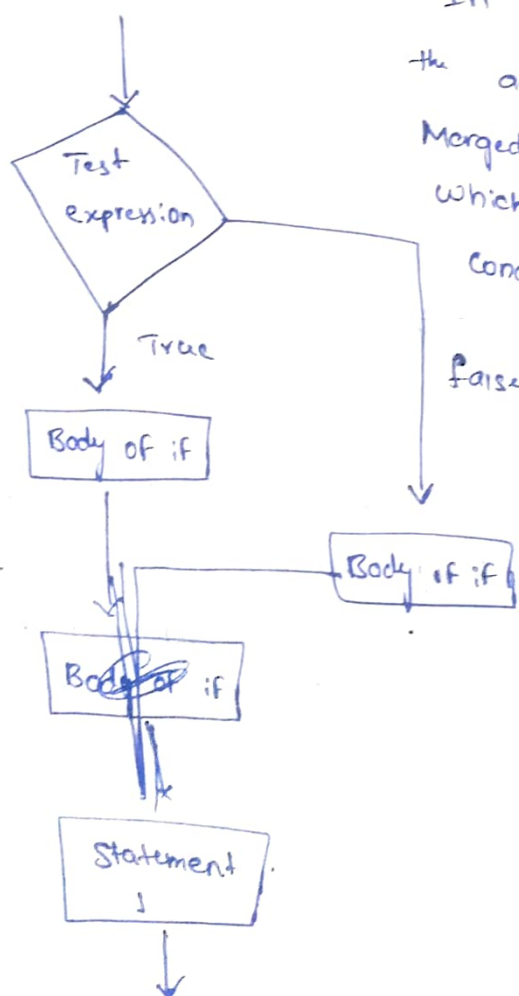


Ex:

```
if 10 > 5;  
    print ("10 greater than 5")  
    print ("program ended")
```

if else

In this Conditional if statement the additional block of code is merged as else statement which is performed when if condition is false.

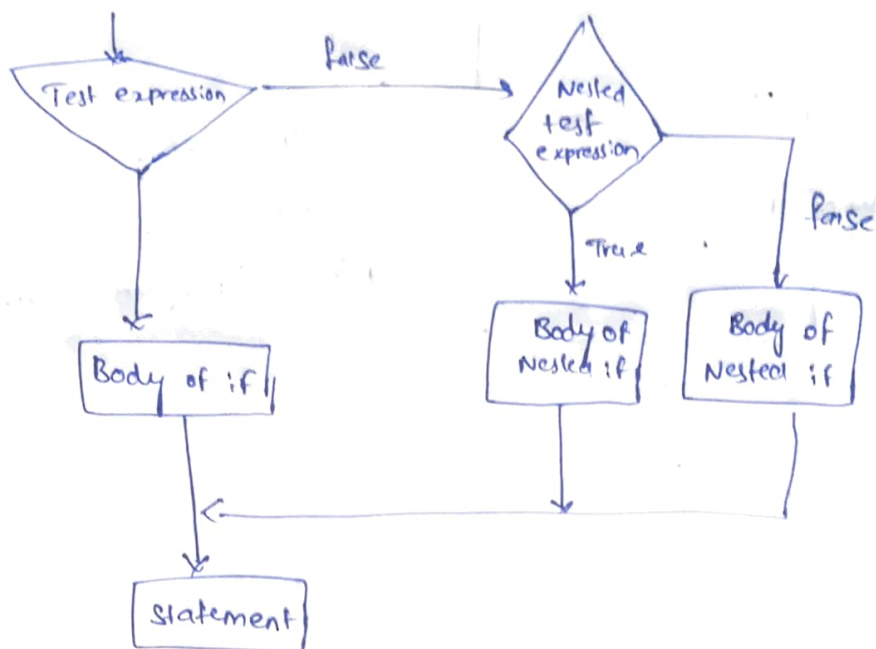


Ex:

```
x = 3  
if x == 4;  
    print ("yes")  
else  
    print ("NO")
```

Nested if statement:

if statement can also be checked inside other if statement. This conditional statement is called nested if statement.



ex-

```
a=10
if a > 5:
    print ("Bigger than 5")
    if a <= 15:
        print ("Between 5 & 15")
```

if - elif

The if-elif statement is a shortcut for chaining multiple if-else conditions. While using if-elif statement at the end else block is added which is performed if none of the above if-elif statement is true.

ex-

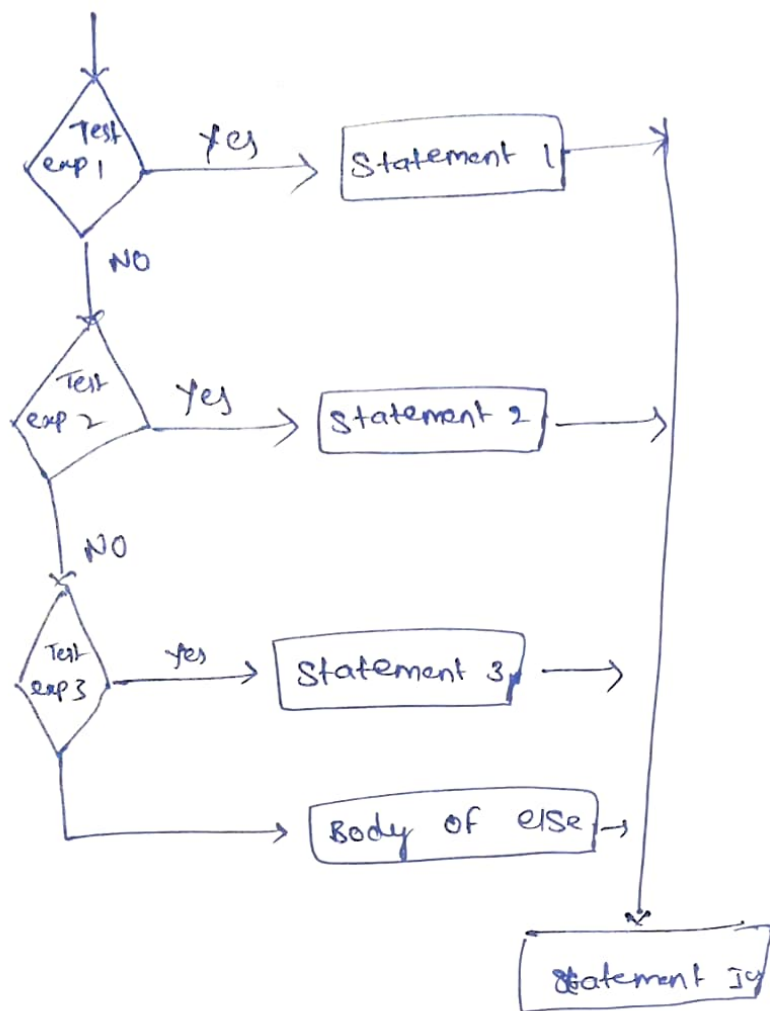
```
letter = 'A'
if letter == 'B':
    print ("letter B")
elif letter == 'c':
    print ("letter is 'c'")
elif letter == 'A':
    print ("letter is 'A'")
```

else :

print (" letter isn't A, B, or C")

output

letter is A



elif inside nested if statement:-

→ using elif within nested if statement in python allows for more complex decision structures within a branch of another decision.

program

x = 5

y = 10

if x > 5:

~~print~~ if y > 10

print ("x is greater than 5")

elif y = 10

print ("x is greater than 5 and y is 10")

else:

print ("x is greater than 5 and y is greater than 5")