

Python If Statement

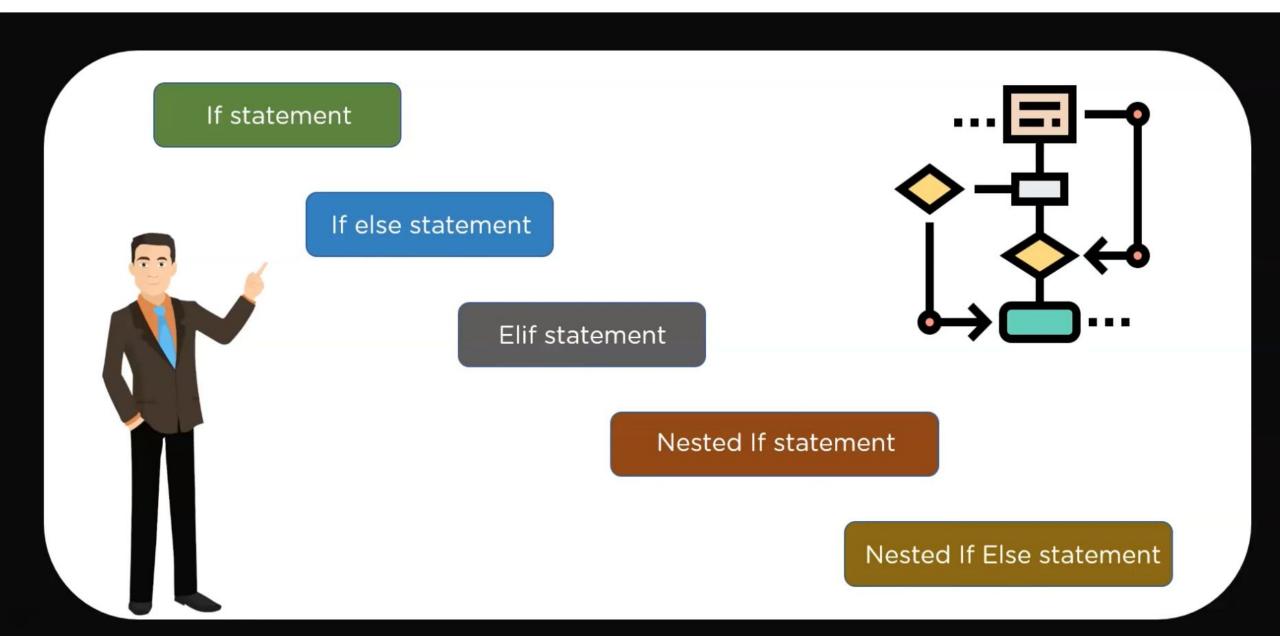
Python if, else

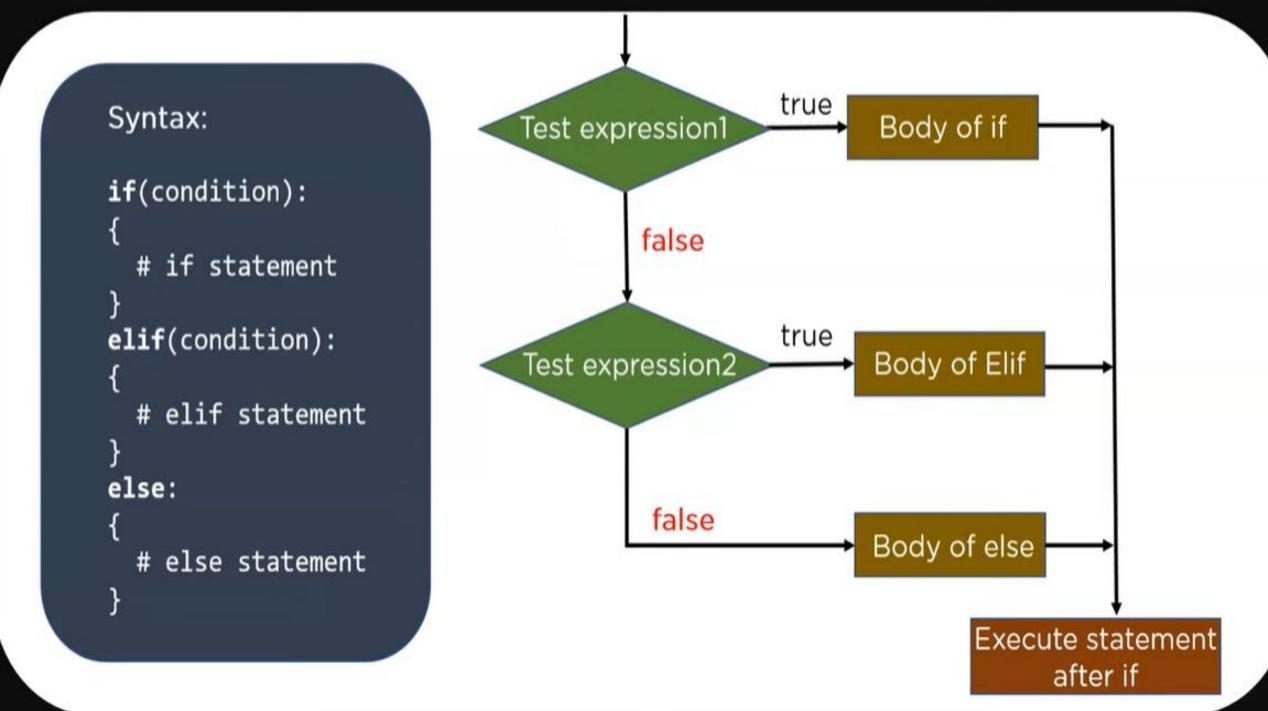
# **Statements**



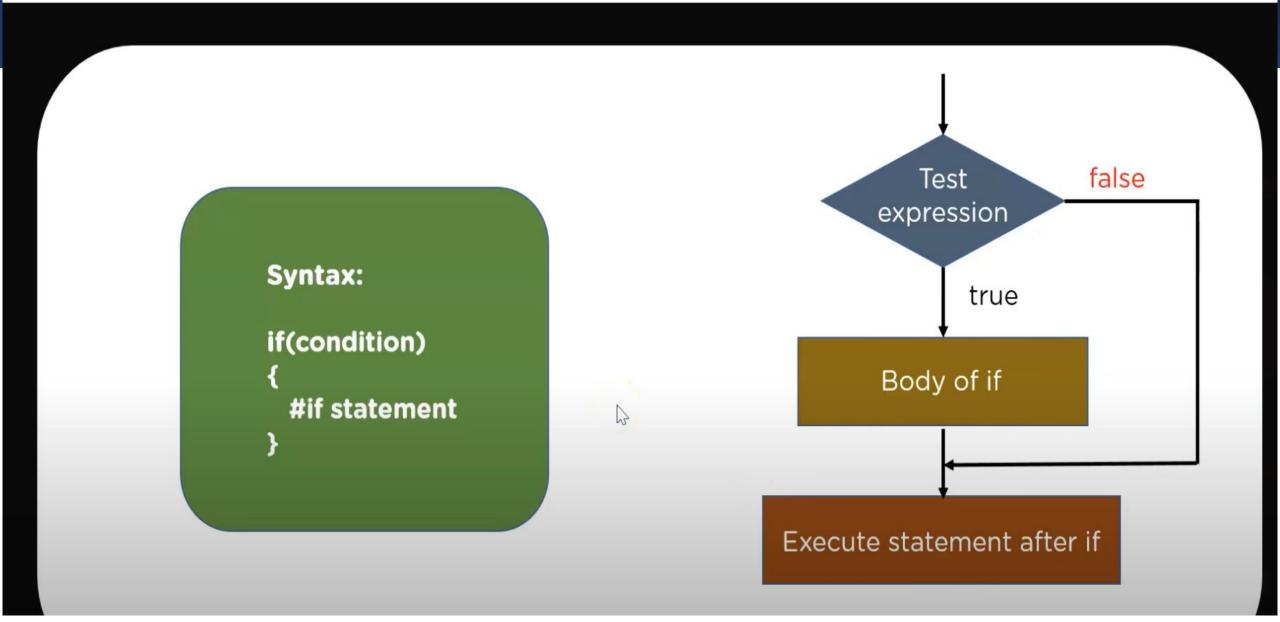
```
else;
.hasOwnProperty("unread_notif
if (global.data.unread_notife
    global.data.unread_notifs
    var a = $(".mmi-notif .hri
    a.html(t.unread_notifs), t
         "unread-icon")
```

# **Conditional Statements in Python**





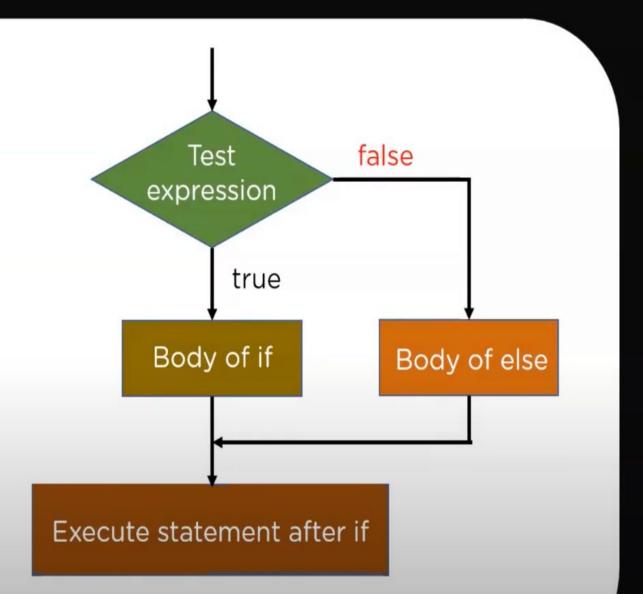
## **If Statement**



```
grade = 80
         if grade >= 50:
           print("Passed in the exam")
        Passed in the exam
grade = 30
          if grade >= 50:
             print("Passed in the exam")
grade = 30
          if grade >= 50:
             print("Passed in the exam"
```

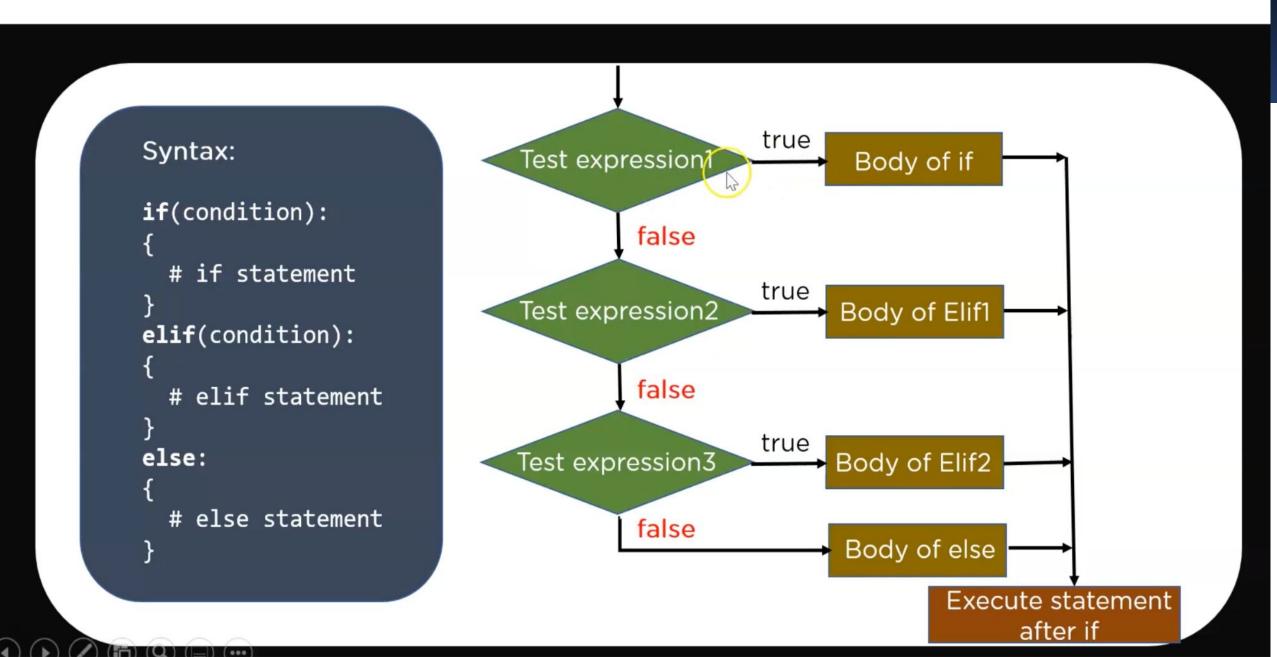
# If Else Statement

```
Syntax:
if(condition):
 # if statement
else:
 # else statement
```



```
In [10]: ► grade = 40
            if grade >= 50:
               print("Pass")
            if grade <50:
                print("Fail")
            Fail
grade = 40
              if grade >= 50:
                  print("Pass")
              else:
                  print("Fail")
              Fail
grade = int(input("Enter the grade "))
          if grade >= 50:
             print("Pass")
          else:
             print("Fail")
          Enter the grade 80
          Pass
```

### **Elif Statement**



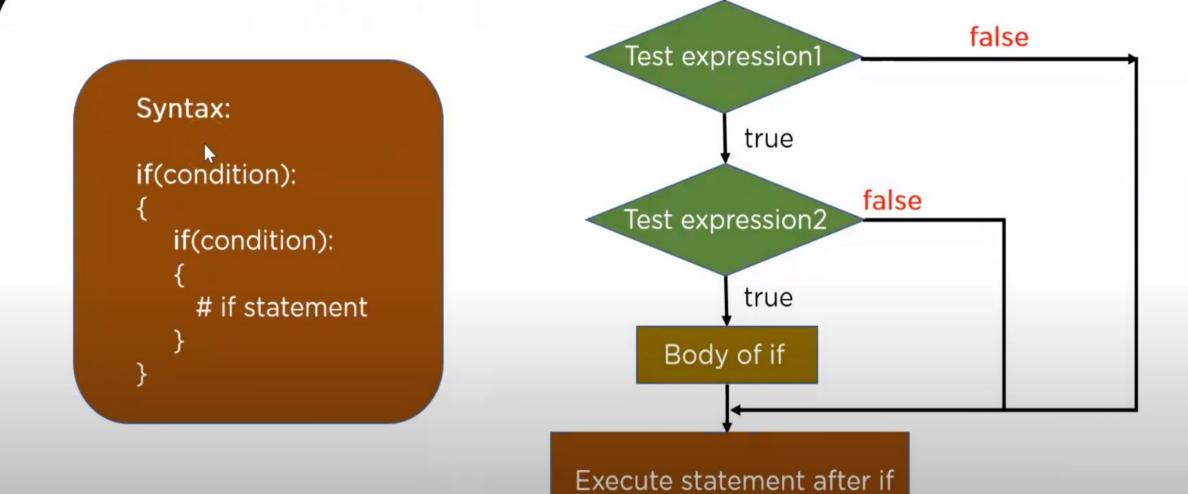
```
score = int(input("Enter the score "))
            if score >= 90:
                print("Passed the exam with A grade")
            elif score >= 75:
                print("Passed the exam with B grade")
            elif score >= 60:
                print("Passed the exam with C grade")
            elif socre >= 40:
                print("Passed the exam with D grade")
            else:
                print("Failed in the exam")
```

Enter the score 95 Passed the exam with A grade

```
0 is less than or equal to three
1 is less than or equal to three
2 is less than or equal to three
3 is less than or equal to three
4 must be four or five
5 must be four or five
6 is greater than five
7 is greater than five
8 is greater than five
9 is greater than five
```

# **Nested If Statement**

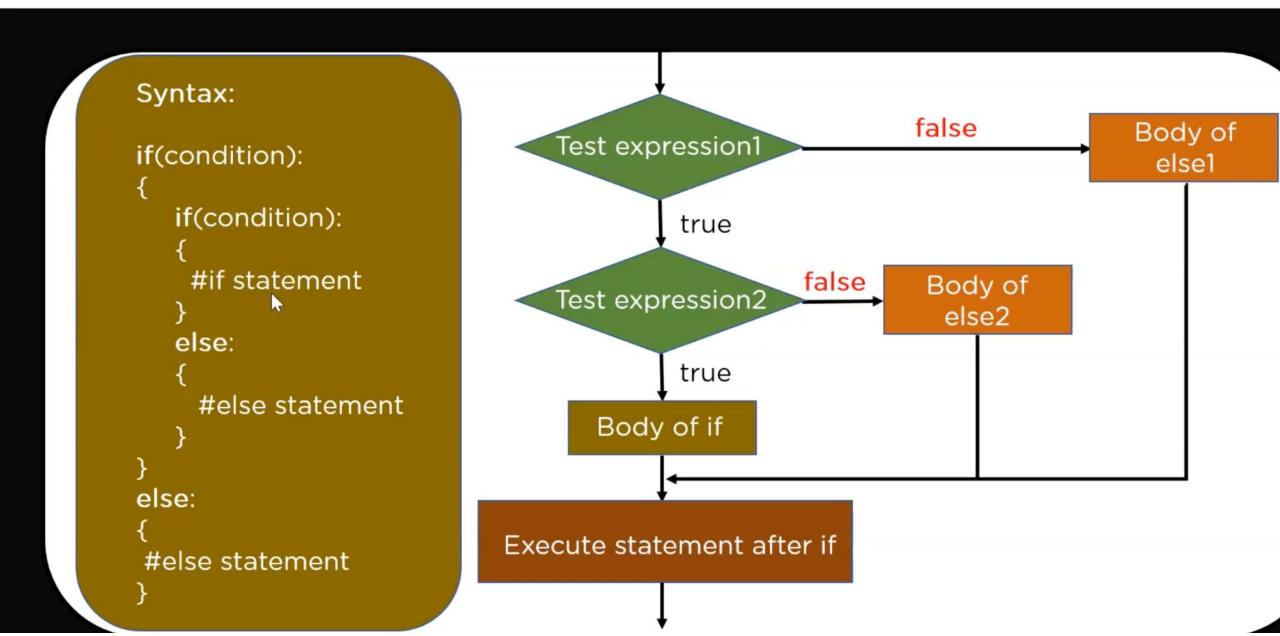




```
In [22]: # Nested if
             num = int(input("Enter the number "))
             if(num < 250):
                 pmint(num, "is smaller than 250")
             if(num < 180):
                 print(num, "is smaller thna 180 as well")
             else:
                 print(num, "is greater than 180")
```

Enter the number 100 100 is smaller than 250 100 is smaller thna 180 as well

### **Nested If Else Statement**



```
In [25]:
         # nested if else
             a = int(input("Enter the number "))
             if a<50:
                 if a\%3 == 0:
                     print(a, "is divisible by 3 and is less than 50")
                 else:
                     print(a, "is not divisible by 3 but is less than 50")
             else:
                 print(a, "is greater than 50")
             Enter the number 12
             12 is divisible by 3 and is less than 50
 In [27]: # nested if else
               a = int(input("Enter the number "))
               if a<50:
                   if a\%3 == 0:
                       print(a, "is divisible by 3 and is less than 50")
                   else:
                       print(a, "is not divisible by 3 but is less than 50")
               else:
                   print(a, "is greater than 50")
              Enter the number 72
              72 is greater than 50
```

#### 1. Basic `if` Statement:

```
x = 10

if x > 5:
    print("x is greater than 5")

x is greater than 5
```

#### 3. 'if-elif-else' Statement:

```
grade = 75

if grade >= 90:
    print("A")

elif grade >= 80:
    print("B")

elif grade >= 70:
    print("C")

else:
    print("F")
```

#### 2. 'if-else' Statement:

```
y = 3
if y % 2 == 0:
    print("y is even")
else:
    print("y is odd")

y is odd
```

#### 4. Nested `if` Statements:

Warm

```
if temperature > 0:
    print("Above freezing")
    if temperature > 20:
        print("Warm")
    else:
        print("Cool")
else:
    print("Below freezing")
```

#### 5. Short `if` Statement:

### 6. Multiple Conditions:

num = 7

```
a = 5
b = 10

max_value = a if a > b else b
print("Maximum value:", max_value)
```

```
el
```

Maximum value: 10

if num > 0 and num % 2 == 0:
 print("Positive and even")
elif num > 0 and num % 2 != 0:
 print("Positive and odd")
else:
 print("Non-positive")

Positive and odd

### 7. Checking for Membership:

```
fruits = ['apple', 'banana', 'orange']
fruit_to_check = 'banana'

if fruit_to_check in fruits:
    print(f"{fruit_to_check} is in the list")

else:
    print(f"{fruit_to_check} is not in the list")
```

banana is in the list

