

# IF-ELSE STATEMENT

@OrbitGNX

CONDITIONAL STATEMENT







## **TOPIC OUTLINE**

if Conditional Statement

if-else Conditional Statement

if-elif-else Conditional Statement

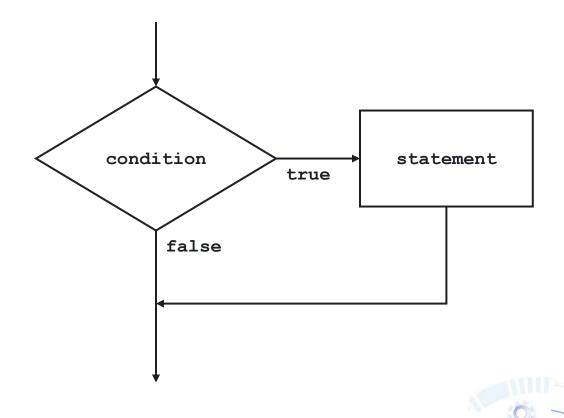


# **IF STATEMENT**



## **IF STATEMENT**

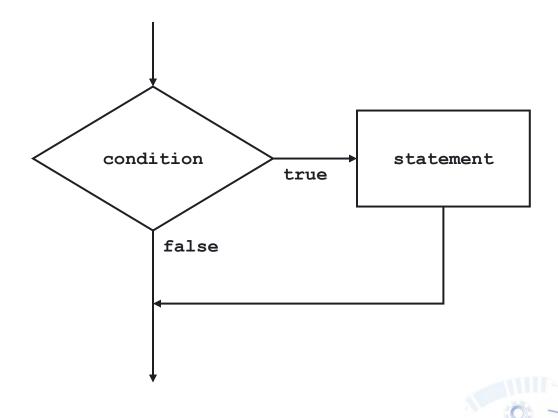
The <u>if</u> statement is a fundamental control flow statement that allows you to execute a block of code <u>conditionally</u> based on whether a specified condition evaluates to **True** or **False**.



## **IF STATEMENT**

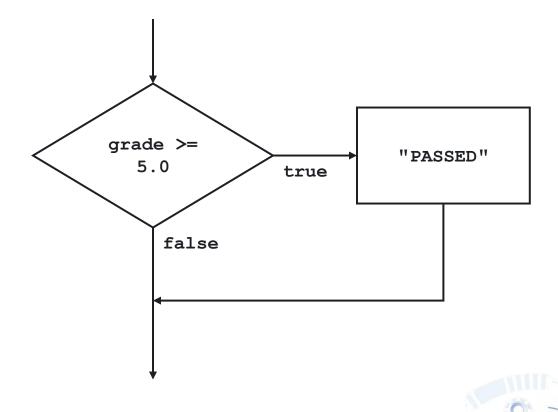
```
<u>syntax</u>
```

```
if condition:
   // code if the condition is true
```



```
grade = 4.0

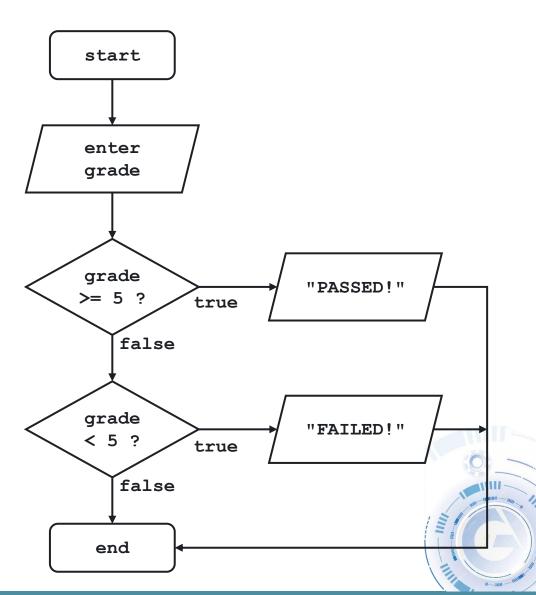
if grade >= 5.0:
    print("PASSED!")
```



```
grade = 4.0

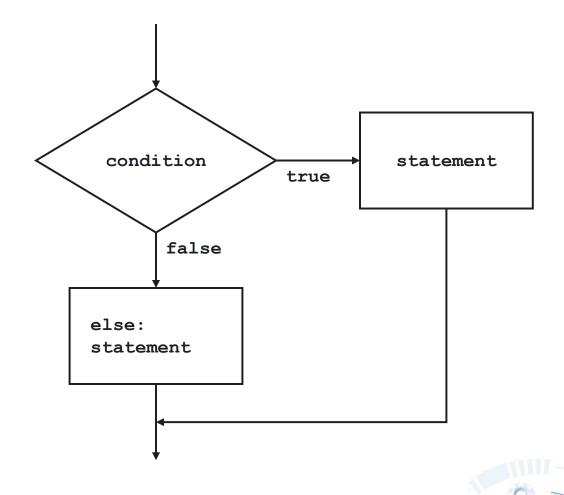
if grade >= 5.0:
    print("PASSED!")

if grade < 5.0:
    print("FAILED!")</pre>
```



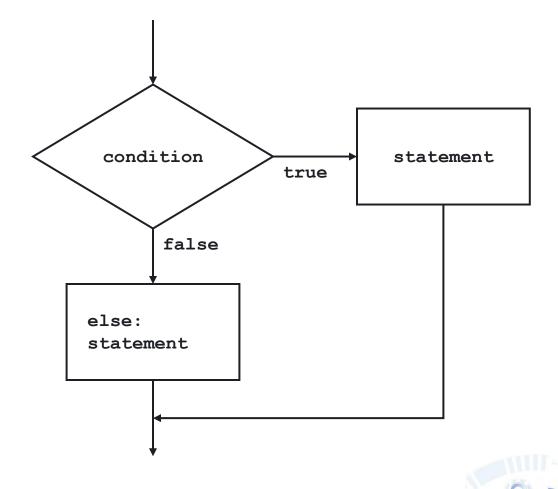
#### **IF-ELSE STATEMENT**

The <u>if-else</u> statement extends the <u>if</u> statement by providing an alternative block of code to execute if the condition is **False**.



#### **IF-ELSE STATEMENT**

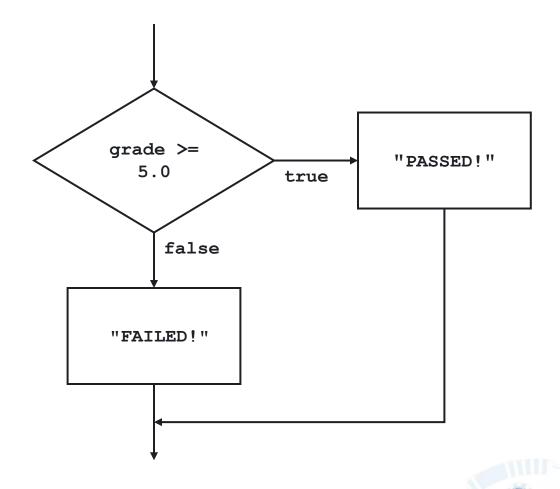
```
syntax
if condition:
    // code if the condition is true
else:
    // code if the condition is false
```



```
grade = 4.0

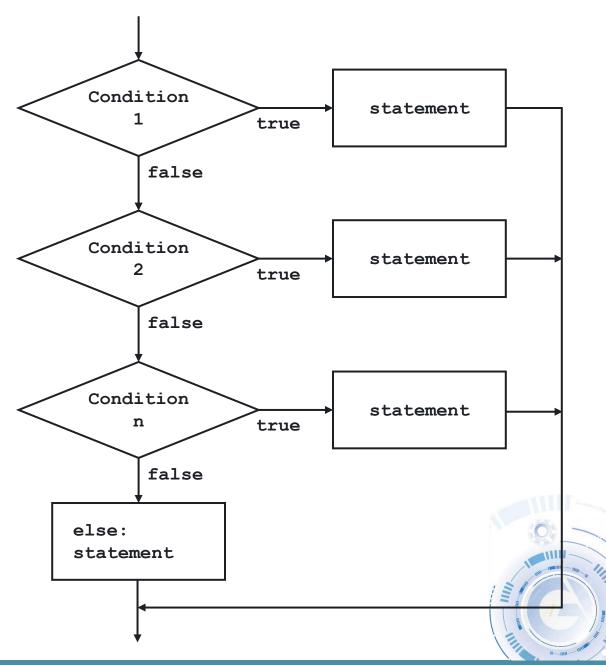
if grade >= 5.0:
    print("PASSED!")

else:
    print("FAILED!")
```

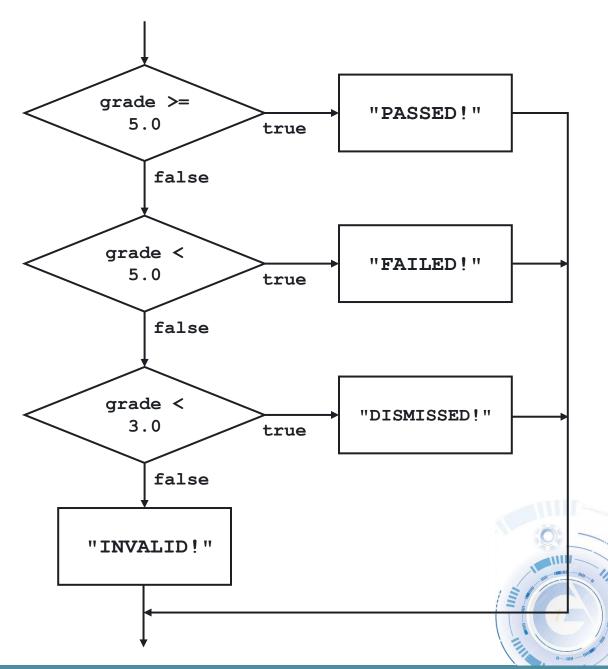


#### **CASCADING IF-ELSE STATEMENT**

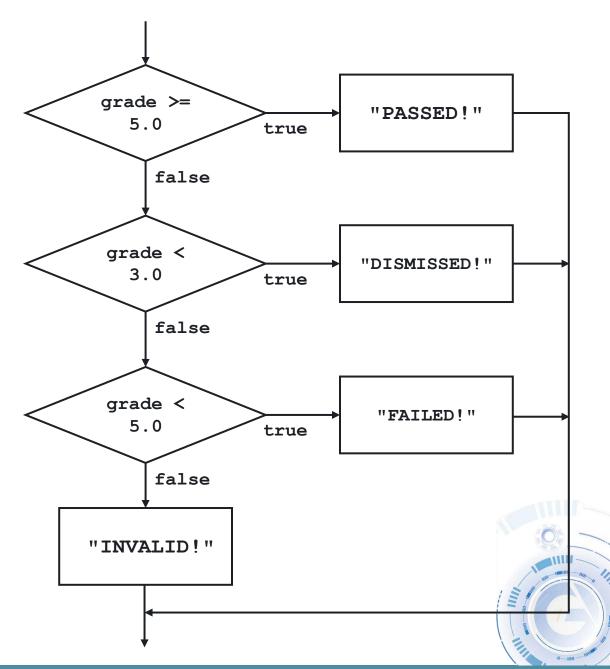
```
if condition 1:
    // if the condition 1 is true
elif condition 2:
    // if the condition 2 is true
else:
    // if condition 1 and 2 are false
```



```
grade = 2.9
if grade >= 5.0:
   print("PASSED!")
elif grade < 5.0:
   print("FAILED!")
elif grade < 3.0:
   print("DISMISSED!")
else:
   print("INVALID!")
```



```
grade = 2.9
if grade >= 5.0:
   print("PASSED!")
elif grade < 3.0:
   print("DISMISSED")
elif grade < 5.0:
   print("FAILED!")
else:
   print("INVALID!")
```



# **LABORATORY**

