

IF-ELSE STATEMENT

@OrbitGNX

CONDITIONAL STATEMENT







TOPIC OUTLINE

if Conditional Statement

if-else Conditional Statement

if-elif-else Conditional Statement

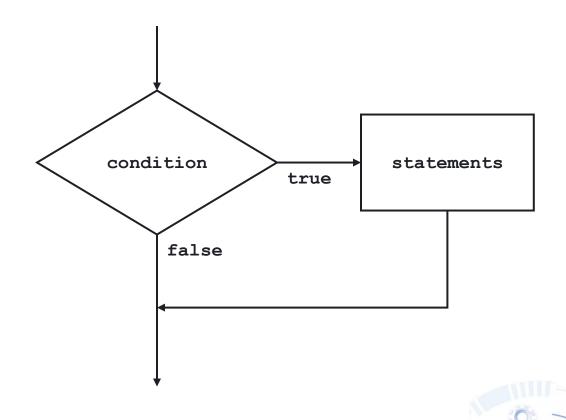


IF STATEMENT



IF STATEMENT

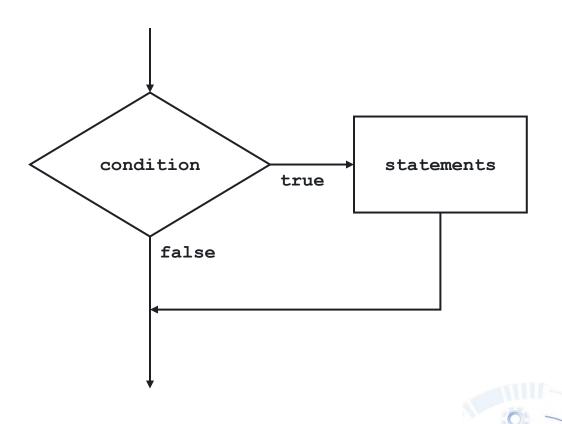
The <u>if</u> statement is a fundamental control flow statement that allows you to execute a block of code <u>conditionally</u> based on whether a specified condition evaluates to **True** or **False**.



IF STATEMENT

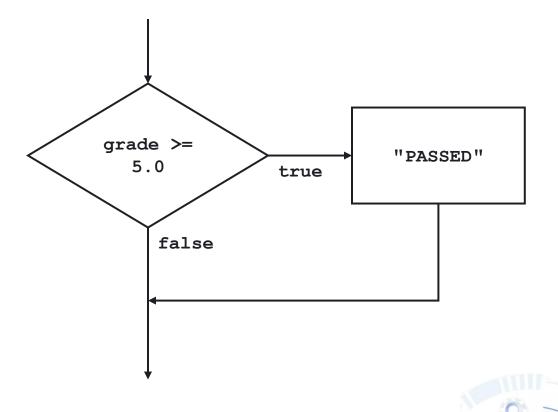
Syntax of the **if** statement:

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



EXERCISE

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

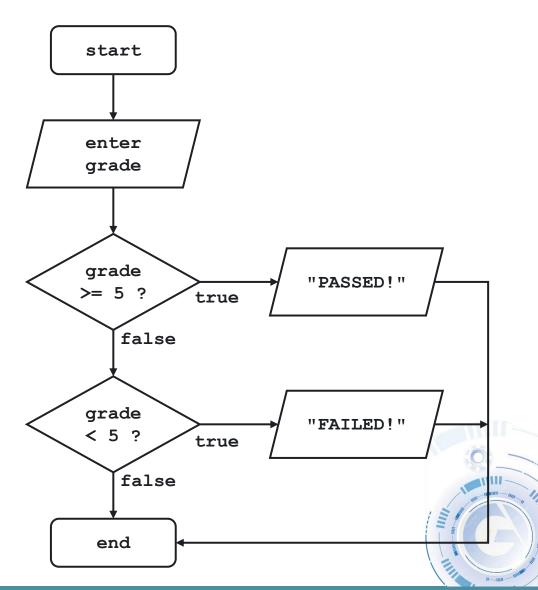


EXERCSISE

```
grade = 4.5

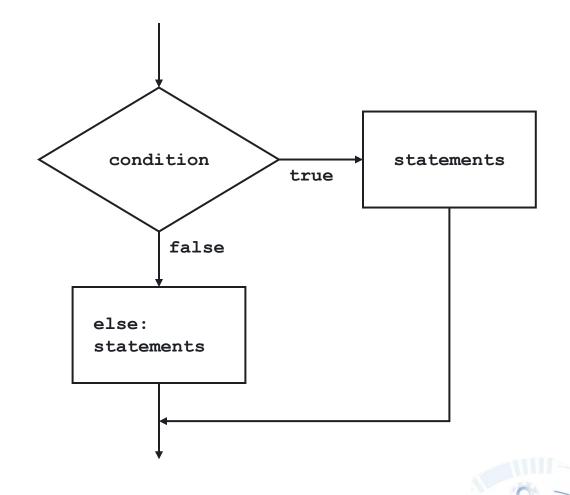
if grade >= 5.0:
    print("PASSED!")

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



IF-ELSE STATEMENT

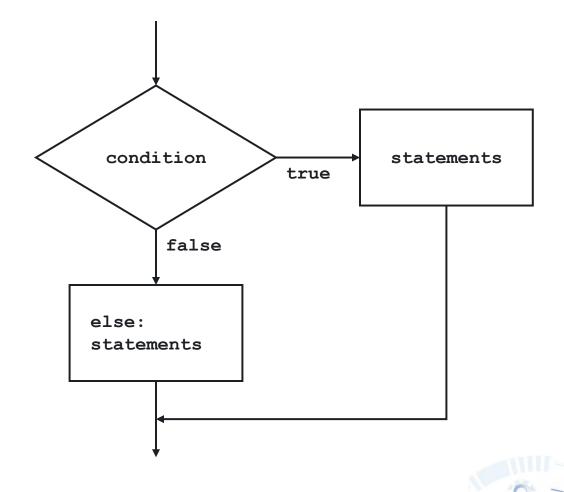
The <u>if-else</u> statement extends the <u>if</u> statement by providing an alternative block of code to execute if the condition is **False**.



IF-ELSE STATEMENT

Syntax of the **if-else** statement:

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

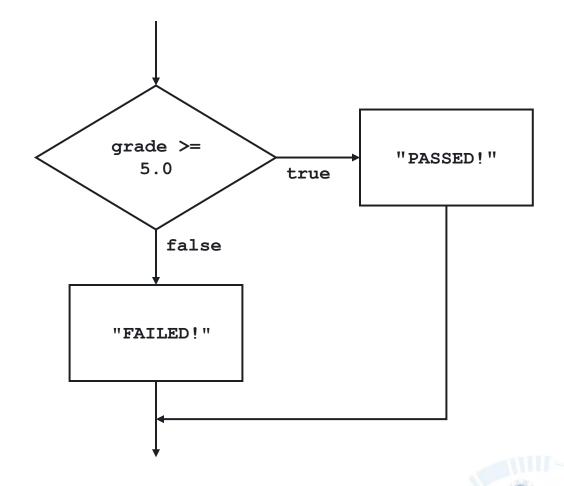


EXERCISE

```
grade = 4.0

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

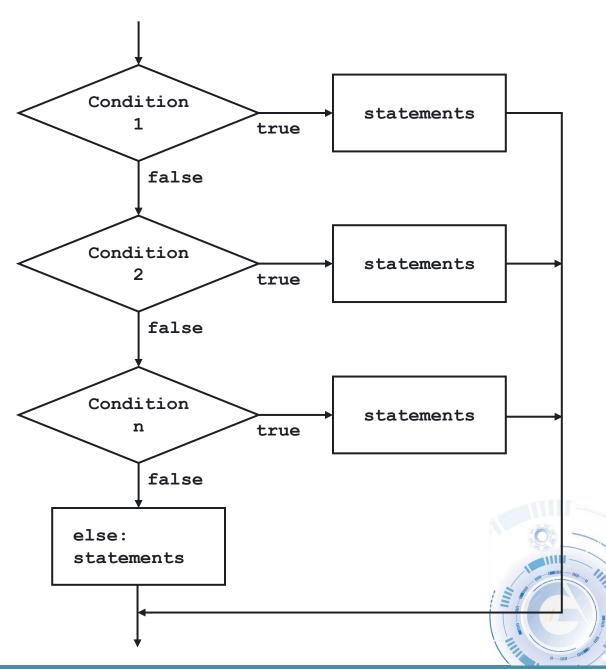
else:
    print("FAILED!")
```



CASCADING IF-ELSE STATEMENT

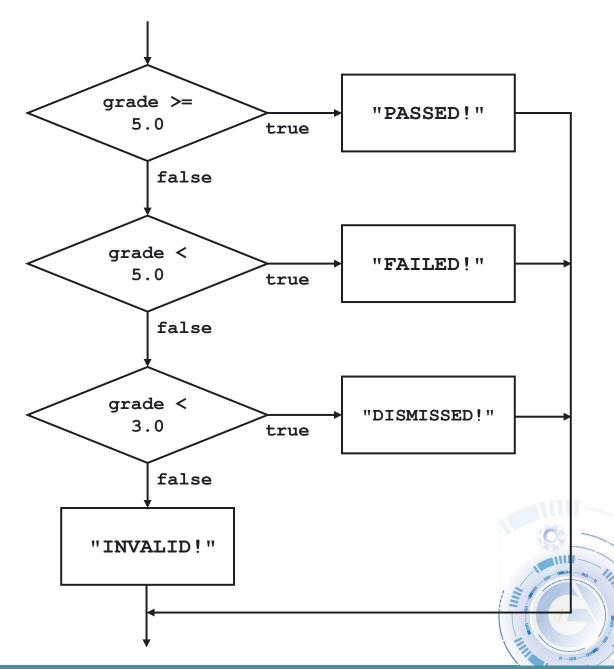
```
Syntax of the cascading if-else statement:
```

```
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
```



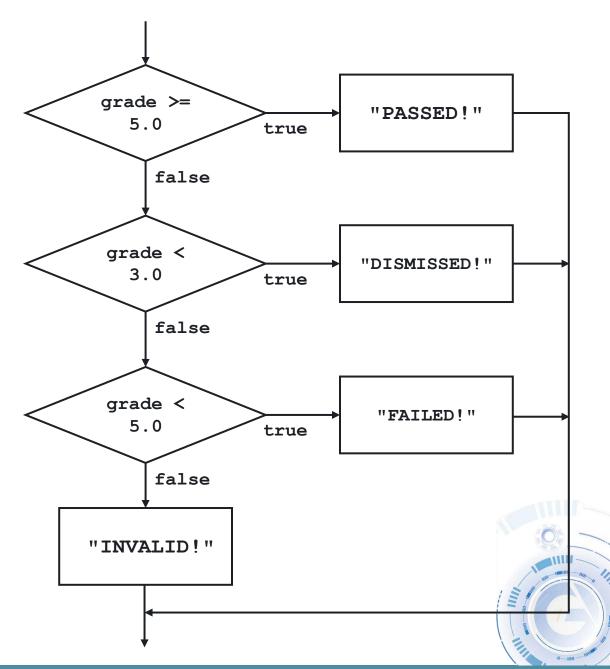
EXERCSISE

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



EXERCSISE

```
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

