else

[Control Structure]

Description

The if…​else allows greater control over the flow of code than the basic [if](https://www.arduino.cc/reference/en/language/structure/control-structure/if) statement, by allowing multiple tests to be grouped. An else clause (if at all exists) will be executed if the condition in the if statement results in false. The else can proceed another if test, so that multiple, mutually exclusive tests can be run at the same time.

Each test will proceed to the next one until a true test is encountered. When a true test is found, its associated block of code is run, and the program then skips to the line following the entire if/else construction. If no test proves to be true, the default else block is executed, if one is present, and sets the default behavior.

Note that an else if block may be used with or without a terminating else block and vice versa. An unlimited number of such else if branches are allowed.

Syntax

if (condition1) {

// do Thing A

}

else if (condition2) {

// do Thing B

}

else {

// do Thing C

}

Example Code

Below is an extract from a code for temperature sensor system

if (temperature >= 70) {

// Danger! Shut down the system.

}

else if (temperature >= 60) { // 60 <= temperature < 70

// Warning! User attention required.

}

else { // temperature < 60

// Safe! Continue usual tasks.

}