

# MATLAB - IF...ELSE...END STATEMENT

[http://www.tutorialspoint.com/matlab/if\\_else\\_statement\\_matlab.htm](http://www.tutorialspoint.com/matlab/if_else_statement_matlab.htm)

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An if statement can be followed by an optional else statement, which executes when the expression is false.

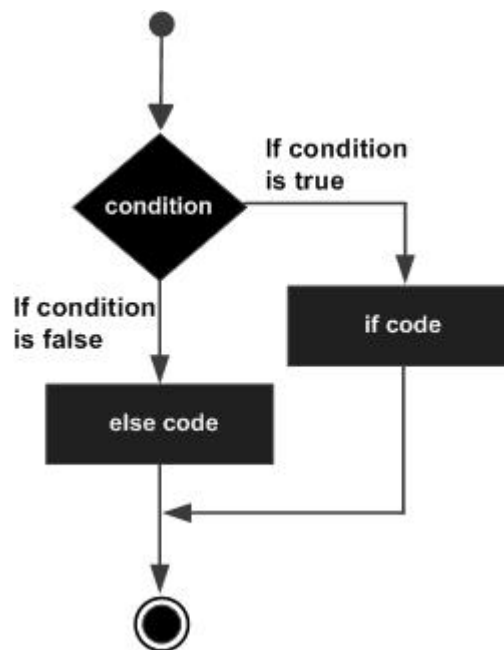
## Syntax

The syntax of an if...else statement in MATLAB is –

```
if <expression>
% statement(s) will execute if the boolean expression is true
<statement(s)>
else
<statement(s)>
% statement(s) will execute if the boolean expression is false
end
```

If the boolean expression evaluates to true, then the if block of code will be executed, otherwise else block of code will be executed.

## Flow Diagram



## Example

Create a script file and type the following code –

```
a = 100;
% check the boolean condition
if a < 20
    % if condition is true then print the following
    fprintf('a is less than 20\n' );
else
    % if condition is false then print the following
    fprintf('a is not less than 20\n' );
end
fprintf('value of a is : %d\n', a);
```

When the above code is compiled and executed, it produces the following result –

```
a is not less than 20
value of a is : 100
```

