

MATLAB - THE WHILE LOOP

http://www.tutorialspoint.com/matlab/matlab_while_loop.htm

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The while loop repeatedly executes statements while condition is true.

Syntax

The syntax of a while loop in MATLAB is –

```
while <expression>
    <statements>
end
```

The while loop repeatedly executes program statements as long as the expression remains true.

An expression is true when the result is nonempty and contains all nonzero elements *logical or real numeric*. Otherwise, the expression is false.

Example

Create a script file and type the following code –

```
a = 10;
% while loop execution
while( a < 20 )
    fprintf('value of a: %d\n', a);
    a = a + 1;
end
```

When you run the file, it displays the following result –

```
value of a: 10
value of a: 11
value of a: 12
value of a: 13
value of a: 14
value of a: 15
value of a: 16
value of a: 17
value of a: 18
value of a: 19
```

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