



NAVI MUMBAI

# MATLAB

## Unit 7-Lecture 30

correcting and ending debugging

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BTech (CSBS) -Semester VII

18 October 2022, 09:35AM



# Control Flow and Operators


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- 1) Debugging process,
- 2) preparing for debugging,
- 3) setting breakpoints,
- 4) running with breakpoints,
- 5) examining values,
- 6) correcting an M- file
- 7) correcting and ending debugging,



## End Debugging Session

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After you identify a problem, to end the debugging session, go to the **Editor** or **Live Editor** tab and click  Stop. After you end debugging, the normal >> prompt in the Command Window reappears in place of the K>> prompt. You no longer can access the function call stack.

To avoid confusion, make sure to end your debugging session every time you are done debugging. If you make changes to a file and save it while debugging, MATLAB ends the debugging session. If MATLAB becomes unresponsive when it pauses, press **Ctrl+C** to end debugging.



# Quit debug mode

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## Syntax

```
dbquit  
dbquit all
```

**dbquit** terminates debug mode. The Command Window then displays the standard prompt (>>). The file being executed is not completed and no result is returned. All breakpoints remain in effect. If MATLAB® is in debug mode for more than one function, **dbquit** only terminates debugging for the active function.

For example, if you debug file1 and also debug file2, then running **dbquit** terminates debugging for file2, while file1 remains in debug mode until you run **dbquit** again. However, if you debug file3 and step into file4, then running **dbquit** terminates debugging for both file.

**dbquit all** ends debugging for all files simultaneously.



# Quit debug mode

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Create a file, `buggy.m`, that contains these statements.

```
function z = buggy(x)
n = length(x);
z = (1:n)./x;
```

Create a second file, `buggy2.m`, that contains these statements.

```
function z2 = buggy2(y)
m = length(y);
z2 = (1:m).*y;
```

Set breakpoints in `buggy` and `buggy2` and run both files. MATLAB pauses at the first line in `buggy` and `buggy2`.

```
dbstop in buggy
dbstop in buggy2
buggy(5)
buggy2(5)
```



# Quit debug mode

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Call the `dbstack` command to check the debugging status.

```
dbstack
```

```
In buggy2 (line 2)
```

```
In buggy (line 2)
```

Quit debugging. MATLAB ends debugging for `buggy2`, while `buggy` remains in debug mode.

```
dbquit
```

```
dbstack
```

```
In buggy (line 2)
```

Run `dbquit` again to exit debug mode for `buggy`.

Alternatively, `dbquit all` ends debugging for both files simultaneously.