

```

1  % open the editor window where you can scripts
2  % a script is a sequence of command executed one-after another and written in a
   file
3  % as already mentioned, save the script file name without an spaces or special
   characters(underscore is allowed)
4  % dot(.) m extension
5  % there will be a button provided to run the script
6  % the results will be shown in the command window
7
8  v = zeros(10,1);
9  for i = 1:10
10     v(i) = 2^i;
11 end
12 disp(v)
13 % notice that where-ever I don't wish to display the results automatically, I
   supress them by semicolon
14
15 i = 1;
16 while i<=5
17     disp('anomitra is sexy')
18     i =i+2;
19 end
20
21 i =1
22 while true
23     disp(i)
24     if i <5
25         disp('less than 5')
26     elseif i < 8
27         disp('less than 8')
28     else
29         disp('greater than 7')
30     end
31     if i == 10
32         disp('i is 10 now')
33         break
34     end
35     i=i+1;
36 end;
37
38 % I think identation doesn't matter in MATLAB
39 % once check that out yourself
40 % for me it was not something to worry about
41
42
43 % now open a new script (say script2) and paste the lines 45 to 46 below and
   uncommnet them
44
45 %function y = squareThisNumber(x)
46 %y  = x^2;
47
48 % now save the script2 with name squareThisNumber.m in the same folder where the
   previous script file is saved
49
50 % come back to previous script now
51 % write this command below in that file and run the script
52
53 t = squareThisNumber(5);
54 disp(t)
55
56 % now change the script of the function file to below  lines 57 to 59
57 %function [y1, y2] = sqrAndCubeThisNumber(x)
58 %y1  = x^2;
59 %y2 = x^3;
60
61 % remember to now save the file with the same name as the function name and with
   a .m extention
62 % keep case-sensitivity in mind too
63 % now come back to previous script and write
64 [t r] = sqrAndCubeThisNumber(5);

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```
65 disp([t r])
66
67 % y1 value will be sent to t
68 % y2 value will be sent to r
69 % so if your function is returning n values then a matrix to hold that n values
70 % must be constructed before the calling of the function
71 % if the function is not returning any value then simply don't write any y
72 % and then also don't call the function as
73 % matrix = function_name(arg1,arg2,...)
74 % then simply do
75 % function_name(arg1,arg2,...)
76 % the function script should be like
77 % function function_name(arg1,arg2,...)
78 % your code
```