Keeping a Record of Your Work

Source: http://www.scribd.com/doc/8961410/Matlab-An-Introduction-to-Matlab Chapters 9, 10, and 13

Method 1

1. Copy (CTRL-C) and Paste (CTRL-V) from Matlab to Word. To copy a figure
2. Select Edit / Copy Figure in Matlab and Paste (CTRL-V) in Word.

Method 2

Issuing the command

```
>> diary mysession
```

will cause all subsequent text that appears on the screen to be saved to the file `mysession` located in the directory in which Matlab was invoked. You may use any legal filename except the names **on** and **off**. The record may be terminated by

```
>> diary off
```

The file `mysession` may be edited with a text editor (e.g., Word, emacs) to remove any mistakes. If you wish to quit Matlab midway through a calculation so as to continue at a later stage:

```
>> save thissession
```

This will save the current values of all variables to a file called `thissession.mat`. This file cannot be edited. When you next startup Matlab, type

```
>> load thissession
```

and the computation can be resumed where you left off.

Method 3

Experiment in the Workspace window and then as you complete a task copy Matlab commands to an M-file, with the same name as the lab (ex. `Lab1.m`) Now whenever you want to review the lab you simply have to type its name (ex. `Lab1`).

Script M-Files

Script files are normal ASCII (text) files that contain Matlab commands. It is essential that such files have names having an extension `.m` (e.g., `Lab1.m`) and,for this reason, they are commonly known as *m-files*.The commands in this file may then be executed using

```
>> Lab1
```

Note: the command does not include the file name extension `.m`.

It is only the outputs from the commands (and not the commands themselves) that are displayed on the screen. To create a script file in Windows, click on the “New Document” icon at the top left of the main

Matlab window to pop up a new window showing the “M-file Editor”. Type in your commands and then save (to a file with a `.m` extension).To see the commands in the command window prior to their execution:

```
>> echo on
```

And echo off will turn echoing off. Any text that follows `%` on a line is ignored. The main purpose of this facility is to enable comments to be included in the file to describe its purpose.

Hard Copy

To obtain a printed copy select Print from the File menu on the Figure toolbar. Alternatively you can save a figure to a file for later printing (or editing). A number of formats is available (use `help print` to obtain a list). To save a file in “Encapsulated PostScript” format, issue the Matlab command

```
print -deps fig1
```

which will save a copy of the image in a file called `fig1.eps`.