Subject: Introduction to Computing

Topic: Matlab @ Basic commands

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Basic commands

- clear
- clc
- close
- who
- whos
- what
- help
- pwd
- cd
- clock
- date
- ^c
- quit/exit

Basic commands

- **clear**
    - Want to clear a particular variable of workspace

        Syntax
        >> clear var1 var2 var3   (Alert: Don't use , in between two variables)

    - Want to clear all variable of workspace

        Syntax
        >> clear all

                    Why we should "clear" commands ????

Basic commands

- **clc**

    - Used in order to clear entire screen of the command window.

    - clearing screen has no effect on the variable saved in the workspace

    Syntax

    >> clc

Basic commands

- **close**
  - Used to close already opened figure windows
  - want to close a particular figure window

    Syntax

    >> close figure name
  - want to close all figure window at once

    Syntax

    >> close all

    Why we should "close all" commands ????

Basic commands

- **who**
  - List of current variables in the workspace

    Syntax:

    >> who

    Your variables are:

    x y z

Basic commands

- **whos**

  - List of current variables in workspace with their size

  Syntax:

  >> whos

Name	Size	Bytes	Class	Attributes
x	1x3	24	double	
y	1x3	24	double	
z	1x3	24	double	

Basic commands

- **what**

  - List of all matlab files (M-file, Mat-file and Mex -file) present in current working folder or directory

  Syntax
  >> what

  MATLAB Code files in the current folder
  C:\Users\ajeet\Desktop\COURSERA\Matlab_programs

  caesar_by_author_2   max_sum   tri_area
  char_counter   max_sum_by_author   trio
  eco_gen   minimax   under_age
  eco_gen_by_author   next_prime   valid_date

  MAT-files in the current folder C:\Users\ajeet\Desktop\COURSERA\Matlab_programs

  data_mat

Basic commands

- **help**
  - Used to find help using command window in the command window
  Syntax:
  \>> help besselj
   besselj Bessel function of the first kind.
      J = besselj(NU,Z) is the Bessel function of the first kind, J_nu(Z).
      The order NU need not be an integer, but must be real.
      The argument Z can be complex. The result is real where Z is
  positive.
        .... (some more info)

      See also airy, besselh, besseli, besselk, bessely.

      Reference page for besselj
      Other functions named besselj

Basic commands

- **helpwin**

    - Used to find help using command window in separate file

     Syntax:

      >> helpwin besselj

      All information in separate window

Basic commands

- **pwd/cd**
  - Print the present working directory

    Syntax:

    >> cd

    C:\Users\ajeet\Desktop\COURSERA\Matlab_programs

    >> pwd

    ans =

    'C:\Users\ajeet\Desktop\COURSERA\Matlab_programs'

    OUTPUT of pwd is a String

Basic commands

- **date**
  - Print current date in format DD-MM-YYYY as string
  Syntax:
  >> date
  ans =
     '15-Aug-2020'

- **clock**
  - Display date and time information in form of vector [Y M D H M S]
  Syntax:
  >> clock

  ans =

     1.0e+03 *

     2.0200   0.0080   0.0150   0.0220   0.0130   0.0191

Basic commands

- **^c**
  - Used to terminate the running program

  "When we should use this command??"

- **quit/exit**
  - Used to close MATLAB