# STUDY OF BASIC SCILAB COMMANDS

**EXP. NO: 1**

**i. OBJECTIVE:** Practicing MATLAB environment with simple exercises to familiarize Command Window, History, Workspace, Current Directory, Figure window, Edit window, Shortcuts, Help files.

**ii. SOURCE CODE :**

Working on general commands on scilab environment

Help – detailed help menu for scilab commands
Who – list all the variables from the variable browser window
Whos - list all the variables with byte size, variable type etc.
Clc – Clears command window
Clear – Removes the variable from memory
Quit – to close the session
Pwd – present working directory
Ls – list the files
Ls -ltr – list the detailed view on the files
Cd - to change the directory
Mkdir – to create a new directory

To work on Special variables / Pre-Defined Variables
%pi – 3.14
Ans
% e = 2.718
%eps – epsilon
%inf – infinity

Basic Scalar & Vector Operations

Creation of Scalar Elements
Y = [1 4 6] ➔ Declares a row vetor
yT = [1; 4; 6] ➔ Declares a Column vector
Creation of Vector Elements
Y = [1 4 6; 2 7 3; 4 1 1]
➔ Creates a 3*3 matrix

To determine the size / order of the vectors.
Size(y)

To change the elements in the given vector
vector(i,j) = value

Performing element by element operations using dot operator
.*, ./, .^,

Linspace[a,b,N] ➔ Vector can be created by evenly spaced points. From a to b the vector is created by 'N' evenly spaced points

Eg: linspace[0,1,5] → 0 0.25 0.5 0.75 1

Transpose of a matrix – y'

ans =

1. 2. 4.
4. 7. 1.
6. 3. 1.

**RESULT**

**Study of basic SCILab commands are worked and executed**