Notes

Lecture: MATLAB GUI

1. MATLAB GUI consist of many important windows. The one which we will be using most of the time is called command window. It is where we interact with the MATLAB.
2. Current Folder: A dedicated folder for storing and using MATLAB files and scripts.
3. Workspace: It contains the information about the variables that are currently being used. We can access different statistics of the variables from here. The declaration of each new variable will become visible in the workspace.

Lecture: Some Common Operations

1. By default every variable in MATLAB is a matrix.
2. We can define matrix by using square brackets. The individual values of the matrix are being separated by a space and the rows are being declared using the semicolon.
3. The functions min(a), max(a) and mean(a) can be used to compute the column wise min, max and mean of the matrix a.
4. To compute the row wise min, max and mean take a transpose of the matrix or use additional arguments.
5. The sort function is used to sort out the values of the matrix in descending or ascending order. The syntax is sort(a). For row wise sorting use sort(a,2) and to sort in descending order use sort(a,’descend’).

Practice

Let us suppose we have the following matrix

a =

0.8147 0.9134 0.2785

0.9058 0.6324 0.5469

0.1270 0.0975 0.9575

Compute row wise min, max and mean by taking the transpose of the matrix. The final answer representing the row wise min, max and mean should displayed in row wise fashion. As an example the min should be displayed like

ans =

0.2785

0.5469

0.0975

Answer on next page.

Answer: Correct answers Min(a')', max(a')' and mean(a')'.