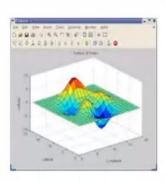
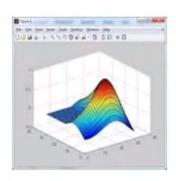




## MATLAB Programming Basics



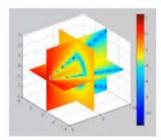


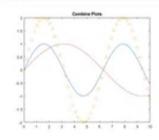


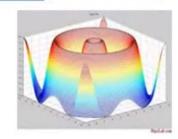
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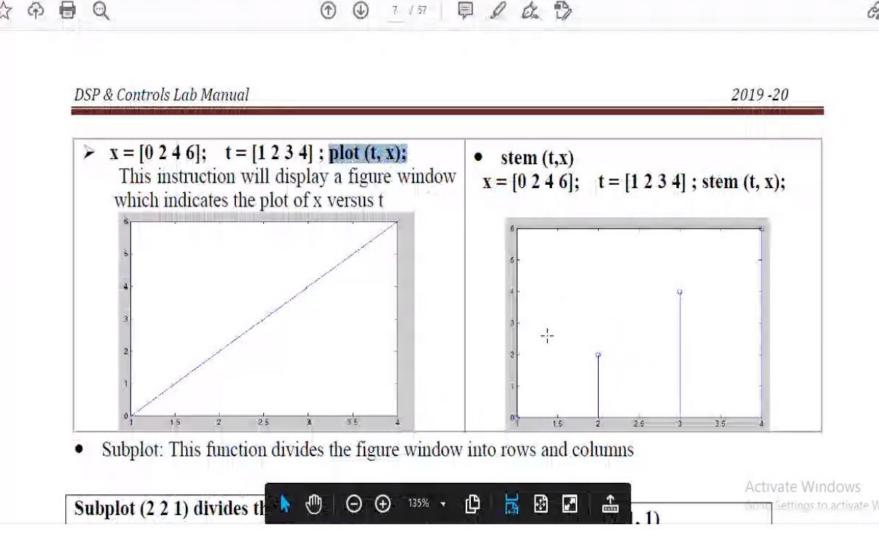






## What is MATLAB?

- Stands for MATrix LABoratory, Developed by <u>The Mathworks, Inc.</u>
   Cleve Moler, in the late 1970s, Initial release: 1984 (www.mathworks.com)
- Originally designed for solving linear algebra type problems using matrices
- An interactive, interpreted and integrated environment
  - For numerical/symbolic, scientific computations and other applications.
    - built-in functions for solving problems in data analysis, signal processing, Neural Networks, optimization
  - Automatic memory management; no need to declare arrays.
  - Intuitive, easy to use, compact notations.
  - Core functionality as compiled C-code, m-files,
  - Additional functionality in toolboxes (m-files)
- Useful tool for mathematical analysis and simulation with results /figures
- Graphics and Visualisation capabilities 2D, 3D
- Latest version MATLAB9.6 release 2019a, 2019 includes Deep Learning, Networking Windows



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