## Introduction to MATLAB

software / program devoloped to case complar calculations paid (Best Fige Alternative -> Octave) Rof. Cleve B. Molor

MAT = matrix, LAB = laboratory
All calculations are in form of matrix (Does matrix operations on all var)

Features of MATLAB

- · Inbuilt Functions -> int, eig, roots, quad, besself, frero
- · user Defined Functions
- · Ease in Computation Work

  - Linear Algebra
     Solving Diff Eq.
     Data Analysis

  - · Interplobation and curve fitting
- · Possibility of external interfacing with other programming languages
- · Efficient CHI silvan to sieplans of posults

- · Toolbox
  - = Simulink Electronic Circuits
  - = Image Processing
  - = Neural Networks
  - = Bioinformatics

- · Data Handling

  - = no need to define type of var = no need to define dimension of array
  - = no need to define signal or double blecossion for carmonion

· Limitation

- = Symbolic cabulation
- = mathematica software is software used for strong and efficient symbolic calculation

Editor - Command Window (Workepare) Command History

File Types: M- files, MAT files

m- files

- · Standard ASCII text files
- · extention (.m)
- · further classified as

  - Script file function file

= Script file → Edillor Text