MATLAB

Lec-6

MATLAB has a number of characteristics that make it distinct from

other programming languages, the most prominent of which are:

Ease of use, as it allows its users to access solutions in the familiar mathematical ways.

Providing tools and means that constitute solutions to problems facing applications and their development.

An effective and standard educational tool for several areas, including the principles of engineering, mathematics, science, and others.

A real model for achieving development and progress in software.

Best choice for use in writing programs that need a moderate range of commands and editing to solve problems.

The overall performance of the language is shortened to manipulate and change numbers.

Refer to it as that area in which the tools of the Matlab language are employed and on which the programmer depends in writing his program to bring about change or create the task entrusted to him; This environment embraces data import, export, and language-based control of data and files.

is a specialized graphic system based on a set of special commands for the purpose of visualizing data in two and three dimensions, and also includes a precise processing of images, animation and presentation graphics, and it is absolutely impossible to have low-level commands in it, as it complements the commands written in the high-level language to reach the desired result.

Matlab language is based on a huge number of algorithms and computational functions, starting from the most basic to the most complex at all. Among its dimensions are addition, square roots, cubes, tangents, cosines, etc., in addition to finding quick solutions without delay.

his interface allows the programmer to write commands based on languages   that are inherently compatible with Matlab, including FORTRAN and C, and creates an atmosphere of familiarity between them in order to move forward with operation,

modification and reading files with ease. The information indicates that there is a dynamic relationship between the three mentioned languages. To motivate her to do her job to the fullest.