

MA2252 Introduction to Computing

Lecture 1: Introduction and MATLAB Basics

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Learning outcomes

- Understanding what computing means
- Introduction to MATLAB as a programming language
- Introduction to the course on Blackboard
- Overview of MATLAB environment

What is computing?

Using computers to solve a problem.

Some programming languages:

- C
- Python
- MATLAB

Why do programming?

- To do tedious calculation tasks
- To build your own calculator!
- To find numerical solutions

Example of a program

Find all numbers divisible by 15 from 1 to 100.

Polling

I want to know if you have past programming experience.

Please go to the link <https://www.menti.com/a176t3kh6sg7> provided in chat

or

visit <https://www.menti.com> and enter the code **84161441**

MATLAB platform

MATLAB is a popular programming language used by mathematicians, engineers and scientists to solve problems.



Features:

- User-friendly interface
- Provides tools for visualising data
- Includes large collection of built-in functions
- Easy matrix manipulations

MATLAB installation

Install MATLAB [▶ here](#)

University of Leicester provides free MATLAB license for students.

Let's go to Blackboard!

The MATLAB environment contains four windows:

- Current Folder
- Command window
- Command history window
- Workspace window

Demo

End of Lecture 1

Please provide your feedback [▶ here](#)