Ahmed
BU21EECE0200026

➢ **Learning Objective:**

❖ To learn how to write a embedded C program for the 8051 microcontroller to control an LCD display using Keil uVision LDE and Proteus Simulation.
❖ To understand how to send commands and data to the LCD to display strings and numbers.

➢ **Input and Output:**

➢ **Input:**

❖ The program inputs a string and an integer value to be displayed on the LCD.

➢ **Output:**

❖ The output is the text displayed on the LCD, which is controlled by the microcontroller program.

➢ **Logic:**

❖ The program begins by initializing the LCD with a series of commands to set it up for display.
❖ A string "ES TRAINING" and "GITAM UNIVERSITY, BANGALORE" are written to the LCD.
❖ The program then clears the display and writes "CLASS STRENGTH" followed by the class strength (20 students).
❖ The number of students (MyData) is split into digits and displayed on the second line of the LCD.

➢ **Results:**

❖ The LCD displays "CLASS STRENGTH" and the number "20" followed by "Students", showing the class strength on the screen.
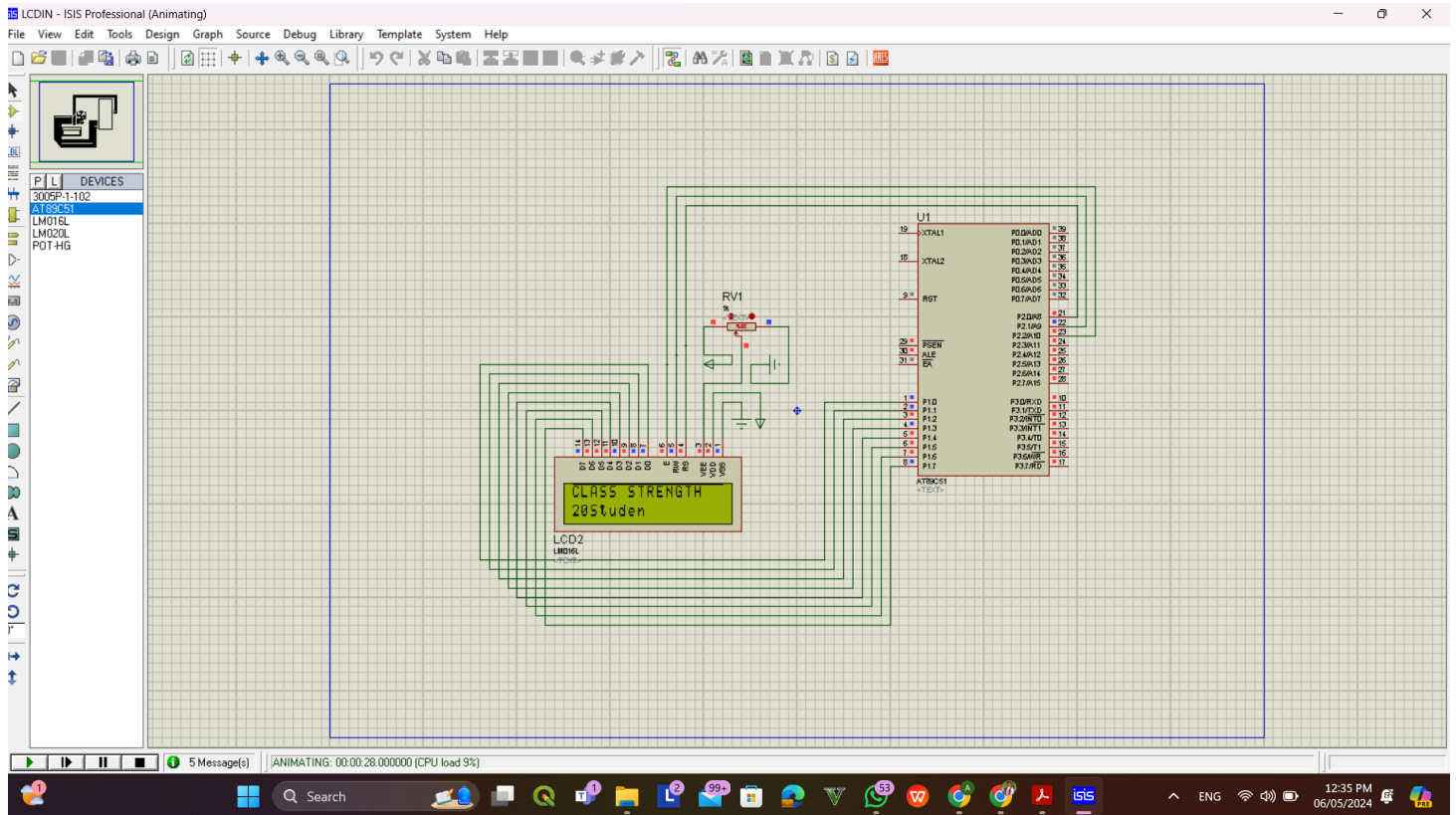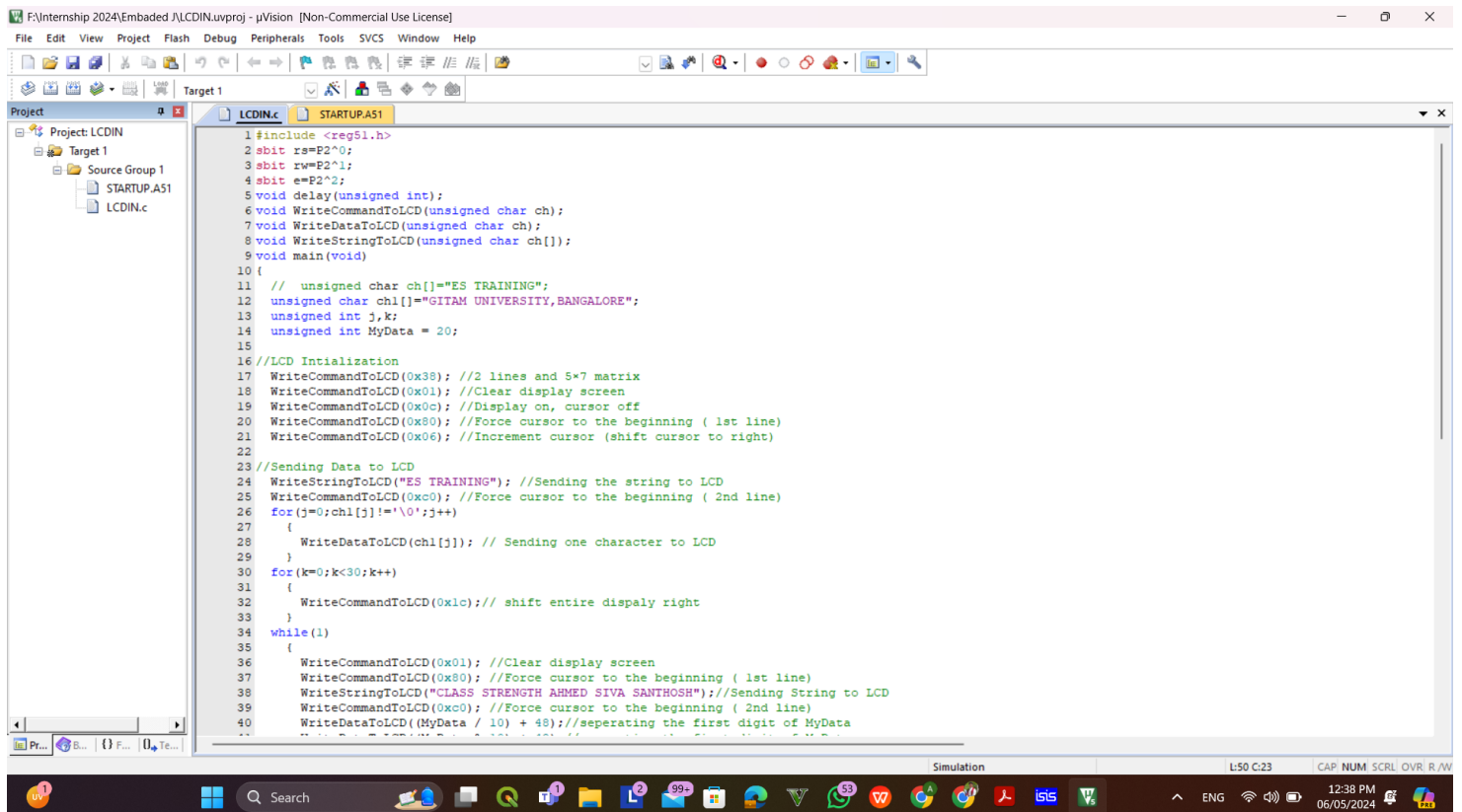
➢ Screenshots:

Proteus Simulation

Keil uVision