GUC

German University in Cairo
Faculty of Engineering and Material Science
Department of Mechatronics Engineering

Mechatronics Engineering
Lab 2 Validation

Due date: To be submitted in your Lab 3 slot.

Student Name:	
GUC ID:	
Lab :	

Problem Statement

It is required to build a circuit with one push button and two LEDs. **Submit your code during your validation.**

Circuit Operation:

- When the user presses the push button, the LED indicator 1 turns on.

- After the user presses the push button five times, the LED indicator 2 turns on.

Design Requirements:

- Use AVR Embedded board.

- Use Embedded C for programming.

- The push button is connected to **PD2**.

- The LED indicators are connected to **PB0** and **PB1**.

- Include software button de-bouncing in your implementation.

- Include a reset push button in your hardware implementation.