

## CSE2037 Lab - 5, Section A

We will be using the onboard user button (B1, blue) and user LED (LD2, green) of the Nucleo board in this experiment.

### Task:

1. Write a complete C code to perform the below operations.
  - a. Initially the user LED is off.
  - b. After 9 button pressing, the LED will toggle (turn on).
  - c. After next 5 button pressing, the LED will toggle (turn off).
  - d. This procedure goes indefinitely.

In this part of the experiment, no switch bouncing precaution added.

2. Repeat part 1 by adding a delay to avoid switch bouncing. Use the `Hal_Delay(...)` function for this purpose.

**Note: We provide the document early. Hence, the students can solve the problem before the lab. This does not mean that they can cheat. Therefore, the student understands that “honor system is observed” while preparing the lab solutions. He or she will sign the returned lab sheet by writing the below phrase.**

*“Honor system is observed while preparing this solution. I did not get help from anybody beside my lab partner. I did not help anybody beside my lab partner. I did not allow anybody to violate the honor system.”*

*Date / Signature of the Student*