

**CS2310: Digital Logic Design Lab**

**Experiment 7 Prof. Sukhendu Das**

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In this lab, you will be designing and implementing circuits to solve the following two problems

**(A) ADD two 2 digit BCD numbers**

**Design the circuit with following inputs and output**

**INPUT:** Two 2 digit BCD numbers ,display inputs in seven segment displays.

**OUTPUT:** Addition of inputs given. Display result in seven segment display.

Handle any invalid input/output and underflow. Use LEDs to trap any of these conditions.

**(B) SUBTRACT two 2 digit BCD numbers**

**Design the circuit with following inputs and output**

**INPUT:** Two 2 digit BCD numbers ,display inputs in seven segment displays.

**OUTPUT:** Subtraction of inputs given. Display result in seven segment display.

Handle any invalid input/output and underflow. Use LEDs to trap any of these conditions.