

***Digital Logic Design Lab***

***Project Rroposal***

### *Course Name:* Digital Logic Design Lab

### *Course Code:* EL-1005

### *Instructor:* Sir Nadeem Kafi

***Project Proposal***

# ***GROUP MEMBERS:***

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***Boolean Algebra Calculator***

# ***Introduction***

Our purpose is based on the idea to solve Boolean algebra questions.

# ***Project Desprition***

Diagram

Description automatically generated

Above figure shows the basic block diagram of the project. Now let us discuss all the blocks in detail:

1. **Power Supply:**A device that supplies electrical energy to one or more electric loads. In our project a supply mains that is 5volt d.C. is given to the microcontroller, LED’s , keypad, display.
2. **Microcontroller:**Microcontroller controls the output (Display) according to the input given to it.
3. **Display:**The Display used here is 3 Bi-color LED’s. The Glowing Pattern of LED’s represent the desired minimized expression.
4. **Keypad:**In this project series of switches have been used as keypad, is used to give the input (min-terms) expression. Each digit on the keypad corresponds to one min-term each.

# ***Tools & Technology***

* + - 1. LogicWorks / Logisim