MICROPROCESSOR AND COMPUTER ARCHITECTURE LABORATORY
UE20CS252

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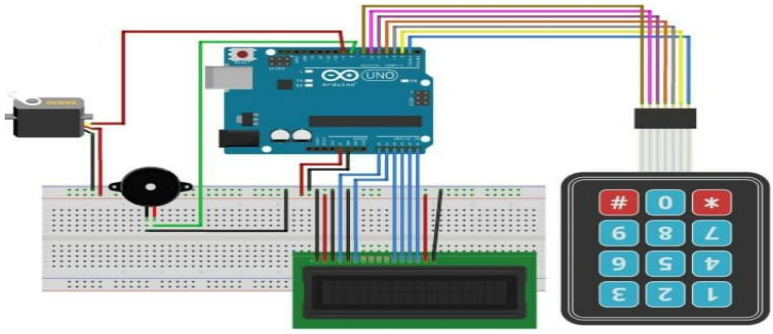
Password Based Door Lock Security System:

Circuit Diagram:



Description:

Components: Arduino UNO R3, keypad, buzzer, Servo Motor, and LCD display. Arduino controls the complete processes like taking a password from the keypad module, comparing passwords, driving buzzer, rotating servo motor, and sending status to the LCD display. The keypad is used for taking the password. The buzzer is used for indications. Servo motor is used for opening the gate while rotating and LCD is used for displaying status or messages on it.

Expected Output:

'Access Granted, Welcome' displayed on the LCD and rotation of Servo motor by 180 degrees on correctly entered password. Beeping of buzzer with 'Incorrect password, go away' on wrong password entry.