List of experiments

1. Interface RGB LED with Arduino board and develop a program to glow it alternately with a delay.

2. Interface 4 switches and 4 LEDs to Arduino board and write a program to control the LEDs as per switch position.

3. Interface a 16×2 LCD module with the Arduino board and write a program to display "MSBTE" on it.

4. Interface a single-digit seven-segment display with Arduino for displaying numbers with a specified delay from 0 to 9.

5. Interface a stepper motor with Arduino and develop a program to rotate it clockwise and counterclockwise.

6. Develop a program to read the value from a temperature sensor through Arduino and display it on an LCD.

7. Interface a DC motor with Arduino and write a program to control its speed.

8. Interface a Bluetooth module with Arduino and write a program to turn ON/OFF the bulb/fan.

9. Interface two 16×2 LCD modules with Arduino using the I2C serial communication protocol.

10. Develop a program to read the value from the ultrasonic sensor through Arduino and use this input to control the direction of a DC motor.