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Experiment No. : 08

Statement : Turn ON/OFF five LEDs individually via serial monitor window.

Date of Exp. : xx/xx/xxxx

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void setup() {

// Set all the pins to OUTPUT mode

pinMode(2, OUTPUT);

pinMode(3, OUTPUT);

pinMode(4, OUTPUT);

pinMode(5, OUTPUT);

pinMode(6, OUTPUT);

// Initialize serial communication with a baud rate of 9600

Serial.begin(9600);

}

void loop() {

// Check if there is data available to be read from the serial port

if (Serial.available() > 0) {

// Read a single character from the serial port

char key = Serial.read();

// Switch statement to perform actions based on the character received

switch (key) {

case '1':

// If '1' is received, set pin 2 to HIGH

digitalWrite(2, HIGH);

break;

case '2':

// If '2' is received, set pin 3 to HIGH

digitalWrite(3, HIGH);

break;

case '3':

// If '3' is received, set pin 4 to HIGH

digitalWrite(4, HIGH);

break;

case '4':

// If '4' is received, set pin 5 to HIGH

digitalWrite(5, HIGH);

break;

case '5':

// If '5' is received, set pin 6 to HIGH

digitalWrite(6, HIGH);

break;

}

}

}



