const int greenLED = 2; // Green LED connected to pin 2

const int yellowLED = 3; // Yellow LED connected to pin 3

const int redLED = 4; // Red LED connected to pin 4

int counter = 0; // Initialize counter

void setup() {

pinMode(greenLED, OUTPUT); // Set the LED pins as outputs

pinMode(yellowLED, OUTPUT);

pinMode(redLED, OUTPUT);

Serial.begin(9600); // Initialize serial communication at 9600 baud

}

void loop() {

// Check if serial data is available

Serial.println("Enter a number:");

if (Serial.available() > 0) {

// Read the input from the Serial Monitor

String inputString = Serial.readStringUntil('\n');

// Convert the input string to an integer

counter = inputString.toInt();

}

// Check the value of the counter

if (counter < 100) {

// If counter is less than 100, illuminate green LED

digitalWrite(greenLED, HIGH);

digitalWrite(yellowLED, LOW);

digitalWrite(redLED, LOW);

} else if (counter >= 100 && counter <= 200) {

// If counter is between 101 and 200, illuminate yellow LED

digitalWrite(greenLED, LOW);

digitalWrite(yellowLED, HIGH);

digitalWrite(redLED, LOW);

} else {

// If counter is greater than 200, illuminate red LED

digitalWrite(greenLED, LOW);

digitalWrite(yellowLED, LOW);

digitalWrite(redLED, HIGH);

}

// Delay for visual feedback

delay(1000); // Adjust delay as needed

}