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Experiment No. : 07

Statement : Blink an LED with two switches. One switch for increasing the blinking rate and other for decreasing the blinking rate.

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**Code Snippet**

int ledPin = 4; // Assuming you have connected the LED to digital pin 13

int increaseSwitchPin = 6; // Pin for the switch to increase blinking rate

int decreaseSwitchPin = 7; // Pin for the switch to decrease blinking rate

int blinkInterval = 1000; // Initial blinking rate in milliseconds

void setup() {

pinMode(ledPin, OUTPUT);

pinMode(increaseSwitchPin, INPUT\_PULLUP);

pinMode(decreaseSwitchPin, INPUT\_PULLUP);

}

void loop() {

digitalWrite(ledPin, HIGH);

delay(blinkInterval);

digitalWrite(ledPin, LOW);

delay(blinkInterval);

// Check the state of the switches

if (digitalRead(increaseSwitchPin) == LOW) {

increaseBlinkInterval();

}

if (digitalRead(decreaseSwitchPin) == LOW) {

decreaseBlinkInterval();

}

}

void increaseBlinkInterval() {

blinkInterval = 1000;

delay(200); // Debounce delay to avoid rapid multiple presses

}

void decreaseBlinkInterval() {

if (blinkInterval > 100) { // Ensure blinking rate doesn't go below 100 milliseconds

blinkInterval =100;

delay(200); // Debounce delay to avoid rapid multiple presses

}

}



