/\*

Experiment No. : 07

Statement : Blink an LED with two switches. One switch

for increasing the blinking rate and other

for decreasing the blinking rate.

Date of Exp. : xx/xx/xxxx

Author : Jagruti Bhoyar (A-08)

\*/

/\* Code \*/

int switchIncrease = 2;

int switchDecrease = 3;

int ledPin = 7;

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

void setup() {

pinMode(ledPin, OUTPUT);

pinMode(switchIncrease, INPUT\_PULLUP);

pinMode(switchDecrease, INPUT\_PULLUP);

}

void loop() {

// Check if the increase switch is pressed

if (digitalRead(switchIncrease) == LOW) {

increaseBlinkInterval();

}

// Check if the decrease switch is pressed

if (digitalRead(switchDecrease) == LOW) {

decreaseBlinkInterval();

}

// Blink the LED

digitalWrite(ledPin, HIGH);

delay(blinkInterval);

digitalWrite(ledPin, LOW);

delay(blinkInterval);

}

void decreaseBlinkInterval() {

blinkInterval = min(2000, blinkInterval + 50);

}

void increaseBlinkInterval() {

blinkInterval = max(50, blinkInterval - 50);

}





