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/*
Experiment No.: 07
          : 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
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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() {
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digitalWrite(ledPin, HIGH);

delay(blinkInterval);

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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
 }
}
```



