

```
/*
```

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 : Aabha Nimje (A-33)

```
*/
```

```
const int ledPin = 5;
```

```
const int switch1Pin = 6;
```

```
const int switch2Pin = 7;
```

```
int blinkInterval = 1000;
```

```
void setup() {
```

```
    pinMode(ledPin, OUTPUT);
```

```
    pinMode(switch1Pin, INPUT_PULLUP);
```

```
    pinMode(switch2Pin, INPUT_PULLUP);
```

```
}
```

```
void loop() {
```

```
// Check the state of the switches
```

```
    if (digitalRead(switch1Pin) == LOW)
```

```
    {
```

```
        blinkInterval = 1000; blinkLED();
```

```
    }
```

```
    if (digitalRead(switch2Pin) == LOW)
```

```
    {
```

```
        blinkInterval = 100; blinkLED();
```

```
    }
```

```
}
```

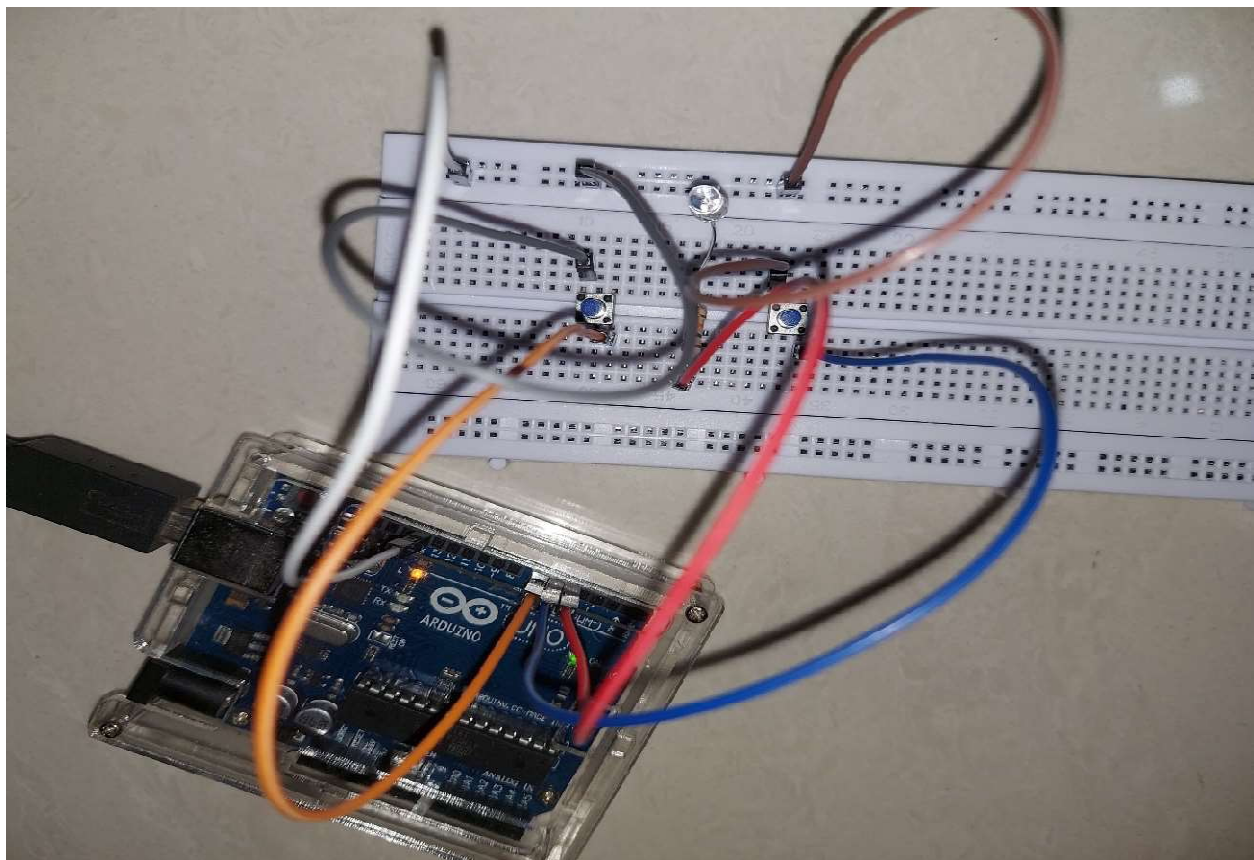
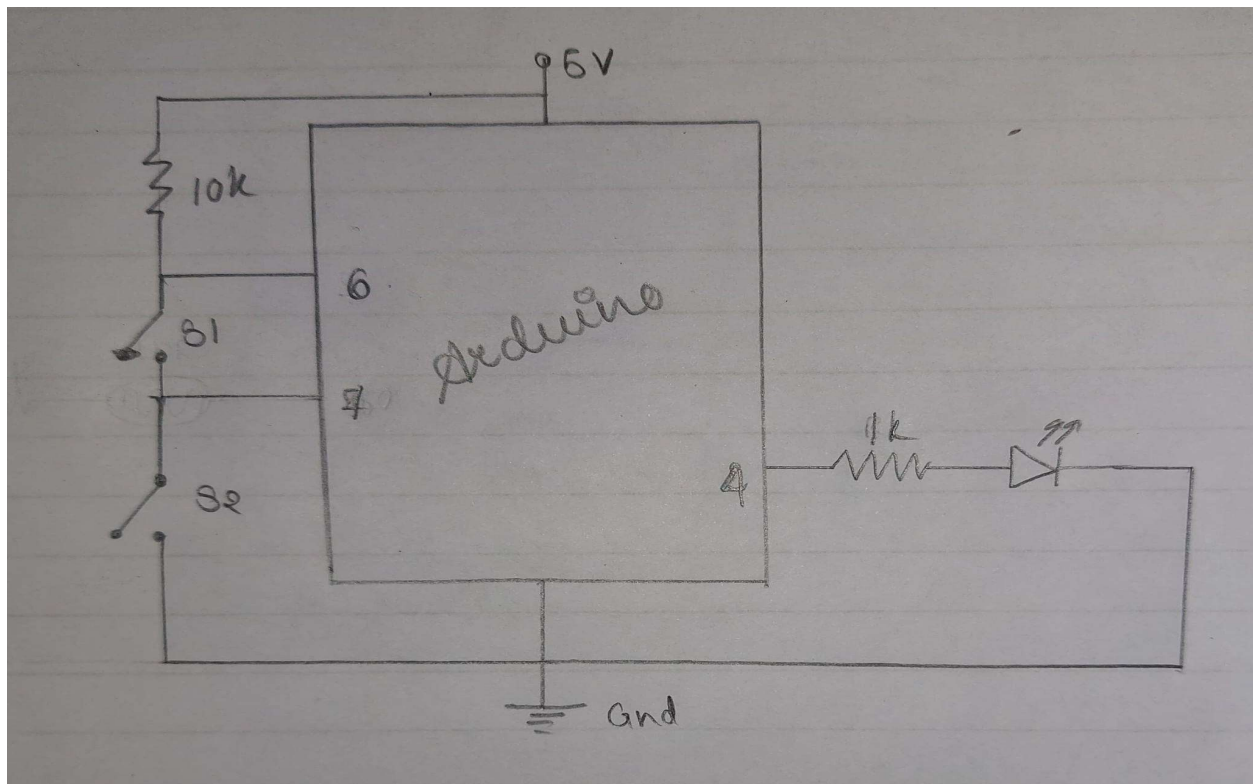
```
void blinkLED(){
```

```
    digitalWrite(ledPin, HIGH);
```

```
    delay(blinkInterval);
```

```
    digitalWrite(ledPin, LOW); delay(blinkInterval);
```

```
}
```



```
Output  Serial Monitor  X
Not connected. Select a board and a port to connect automatically.

Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
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Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 1      Blink Interval: 200
Increase Button: 1      Decrease Button: 0      Blink Interval: 250
Increase Button: 1      Decrease Button: 0      Blink Interval: 300
Increase Button: 1      Decrease Button: 0      Blink Interval: 350
Increase Button: 1      Decrease Button: 0      Blink Interval: 400
Increase Button: 1      Decrease Button: 0      Blink Interval: 450
Increase Button: 1      Decrease Button: 0      Blink Interval: 500
Increase Button: 0      Decrease Button: 1      Blink Interval: 450
Increase Button: 0      Decrease Button: 1      Blink Interval: 400
Increase Button: 0      Decrease Button: 1      Blink Interval: 350
Increase Button: 0      Decrease Button: 1      Blink Interval: 300
Increase Button: 1      Decrease Button: 1      Blink Interval: 250
Increase Button: 1      Decrease Button: 1      Blink Interval: 250

Building sketch
```