

J&V& IOT DEVELOPER L&B

LAB -5

SUBMITTED BY:

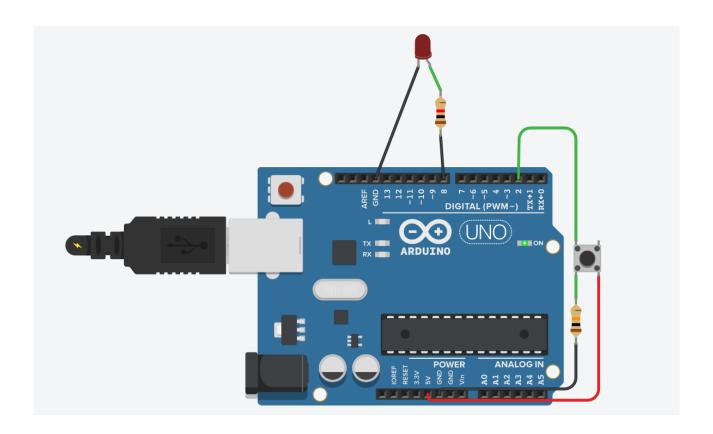
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Questions:-

```
Q1. Blink LED without using Delay().
// C++ code
const long interval = 1000;
int ledState = LOW;
unsigned long previousMillis = 0;
int buttonState = 0;
void setup()
 pinMode(2, INPUT);
 pinMode(8, OUTPUT);
void loop()
 // read the state of the pushbutton value
 buttonState = digitalRead(2);
 // check if pushbutton is pressed. if it is, the
 // buttonState is HIGH
 unsigned long currentMillis = millis();
 if (buttonState == HIGH) {
  if (currentMillis - previousMillis >= interval) {
  // save the last time you blinked the LED
  previousMillis = currentMillis;
  // if the LED is off turn it on and vice-versa:
  if (ledState == LOW) {
   ledState = HIGH;
  } else {
   ledState = LOW;
  // set the LED with the ledState of the variable:
  digitalWrite(8, ledState);
 } else {
  // turn LED off
  digitalWrite(8, LOW);
 // Delay a little bit to improve simulation performance
 delay(10);
}
```



Q2. Use one slider/ toggle switch and two LEDs.

```
// C++ code
//
int buttonState = 0;
void setup()
 pinMode(2, INPUT);
 pinMode(8, OUTPUT);
 pinMode(5, OUTPUT);
void loop()
 // read the state of the pushbutton value
 buttonState = digitalRead(2);
 // check if pushbutton is pressed. if it is, the
 // buttonState is HIGH
 if (buttonState == HIGH) {
  // turn LED on
  digitalWrite(8, HIGH);
  digitalWrite(5,LOW);
 } else {
  // turn LED off
  digitalWrite(8, LOW);
  digitalWrite(5,HIGH);
```

// Delay a little bit to improve simulation performance delay(10);

