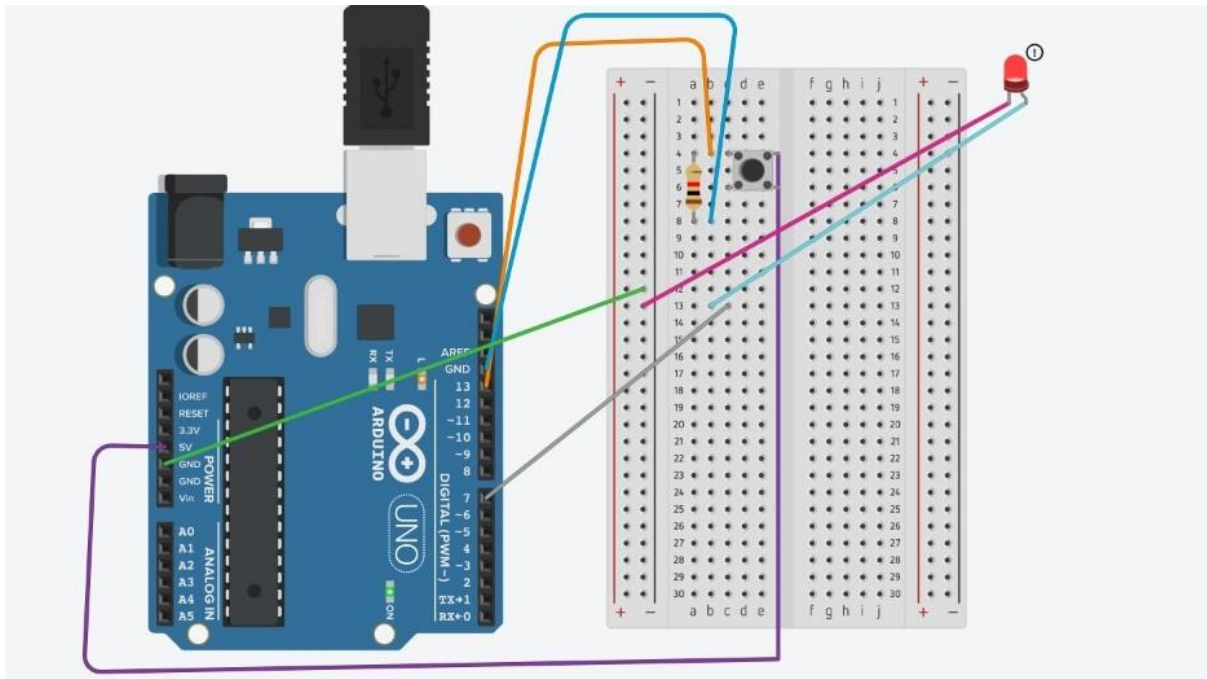


## ***Aim : Blink of LED using Switch***

**APPARATUS:** LED, Breadboard, wires, arduino, resistor, switch;

### **CIRCUIT DIAGRAM**



### **CODE:**

```
char data=0;

void setup() {

  Serial.begin(9600);

  pinMode(1,OUTPUT);
```

```
}
```

```
void loop() {

  if(Serial.available(>0)
```

```
{  
  
  data=Serial.read();  
  
  Serial.print(data);  
  
  Serial.print("\n");  
  
  if(data=='1')  
  
    digitalWrite(13,HIGH);  
  
  else if(data=='0')  
  
    digitalWrite(13,LOW);  
  
}  
  
}
```

## **Learning and Observations:**

1. A push button switch and LED is connected to arduino.
2. When we press the switch, LED will glow for 1 second.
3. You need to connect pull up or pull down resistor while interfacing switch.

## **Problem and Troubleshooting:**

1. Arduino was not working properly and cables were also not working.
2. Mistake in code uploading.

## **Result:**

The LED will glow when we press the switch.