

# Sakshi Srivastava

## 1BM18CS090

### PROGRAM TITLE: LED USING PUSHBUTTON

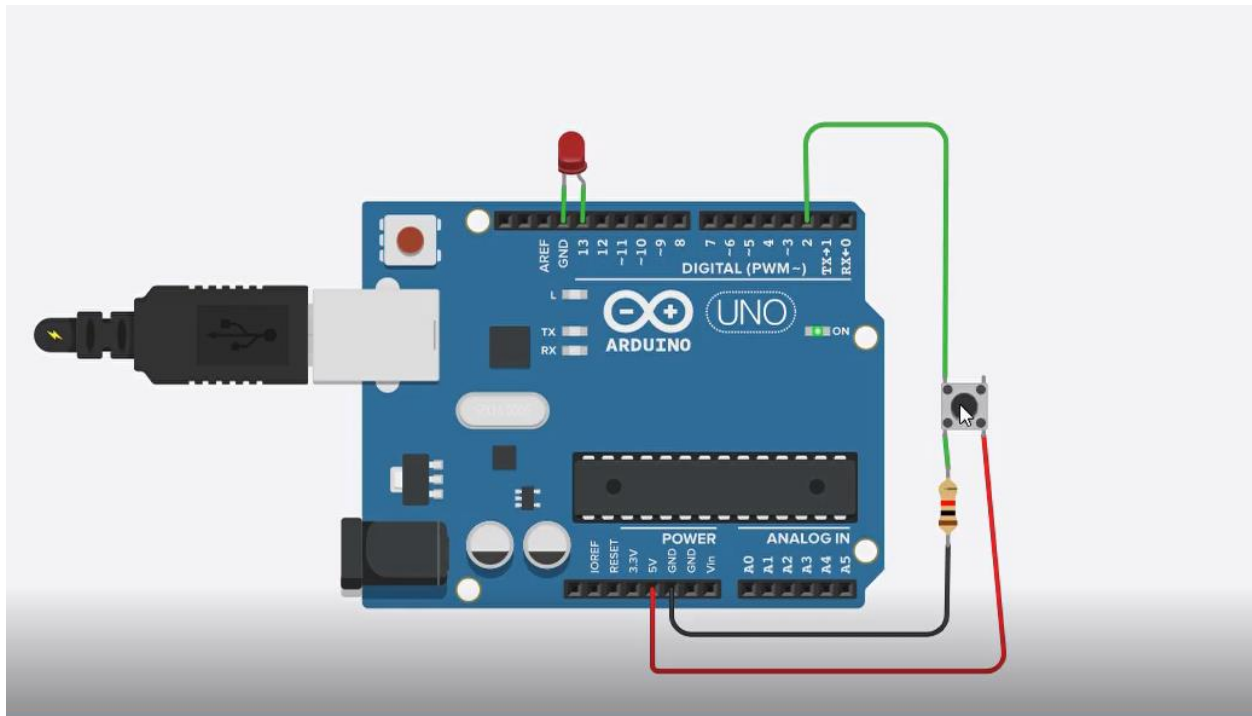
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**Aim:** DEMONSTRATE TO SHOW ON/OFF OF A LED USING PUSHBUTTON

#### Hardware Required:

- Arduino Board
- LED
- Pushbutton
- Resistor

#### Circuit Diagram:



## Write-Up:

NAME: Lakshi Srivastava USN: IBM18C6090 Date 23/09/20

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Program Title: LED Using Pushbutton.

Aim: Demonstrate to show ON/OFF of a LED using Pushbutton (Digital output)

→ Hardware Required:-

- LED
- Arduino Board
- Pushbutton, Resistor.

Code:

```
const int buttonPin = 2;
const int ledPin = 13;
int buttonState = 0;

void setup()
{
  pinMode(ledPin, OUTPUT);
  pinMode(buttonPin, INPUT);
}

void loop()
{
  buttonState = digitalRead(buttonPin);
  if(buttonState == HIGH)
```

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```

{
  digitalWrite(ledPin, HIGH);
}
else
{ digitalWrite(ledPin, LOW);
}
}
```

**CODE:**

```
const int
buttonPin=2;

const int ledPin=13;
int buttonState=0;
void setup()
{
  pinMode(ledPin,OUTPUT); // declare LED as output
  pinMode(buttonPin, INPUT); // declare pushbutton as input
}

void loop()
{
  buttonState = digitalRead(buttonPin); // read input value
  if (buttonState== HIGH)
  {
    digitalWrite(ledPin, HIGH);
  }
  else
  {
    digitalWrite(ledPin, LOW);
  }
}
```

**Observation /Output:**

On/Off Of A Led Using Pushbutton