

**Name – Parag Gattani**

Program No. – 05

Program Title – ON/OFF LED using Push Button

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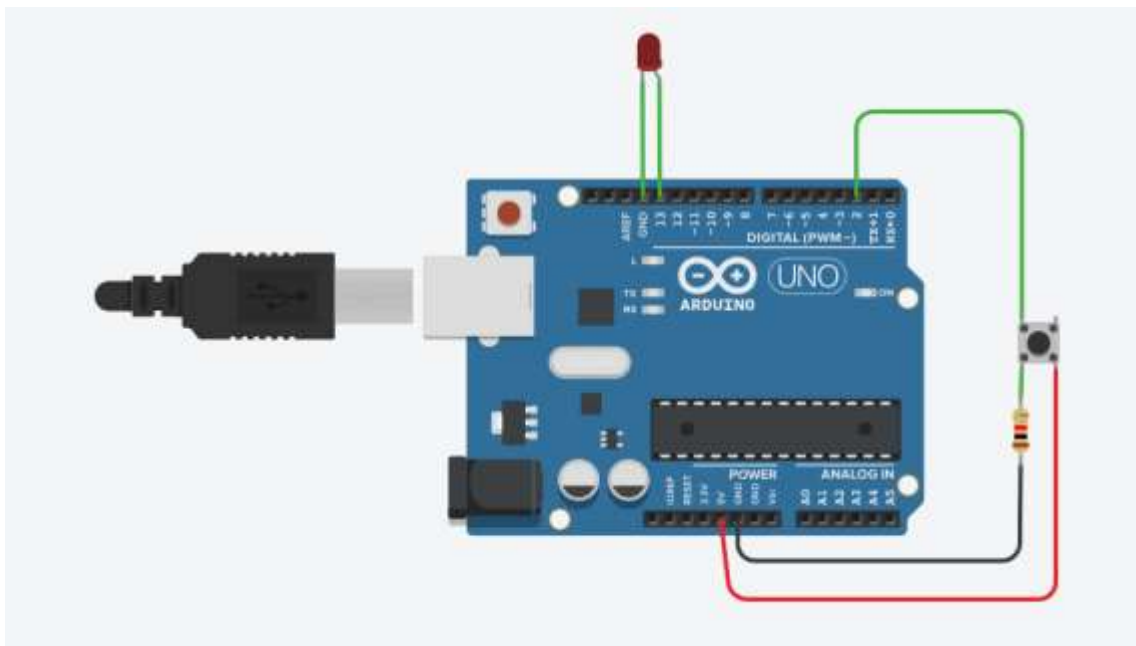
## **AIM**

Demonstrate to show ON/OFF of a LED using push button(Digital Output).

## **HARDWARES REQUIRED**

- Arduino Board
- LED bulb
- Push Button
- Resistor

## **CIRCUIT DIAGRAM**



## WRITE-UP

Name - Pooja Gattani  
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23/09/2020

Exp. No. 5

ON/OFF LED using pushbutton

Aim:-

Demonstrate to show ON/OFF of a LED using pushbutton (Digital Output)

Hardware Required:-

Arduino Board

LED Bulb

Push Button

Resistor

Code:-

```
int buttonstate = 0;
void setup()
{
    pinMode(13, OUTPUT);
    pinMode(2, INPUT);
}
void loop()
{
    buttonstate = digitalRead(2);
    if (buttonstate == HIGH)
    {
        digitalWrite(13, HIGH);
    }
    else
    {
        digitalWrite(13, LOW);
    }
}
```

## CODE

```
int buttonstate=0;

void setup()
{
    pinMode(13, OUTPUT);
    pinMode(2, OUTPUT);

}

void loop()
{
    buttonstate=digitalRead(2);
    if(buttonstate == HIGH)
    {digitalWrite(13,HIGH);}
    else
    {digitalWrite(13,LOW);}
}
```

## OUTPUT

ON/OFF of a LED using push button(Digital Output).