IOT LAB - 5th Sem

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Program No : 02
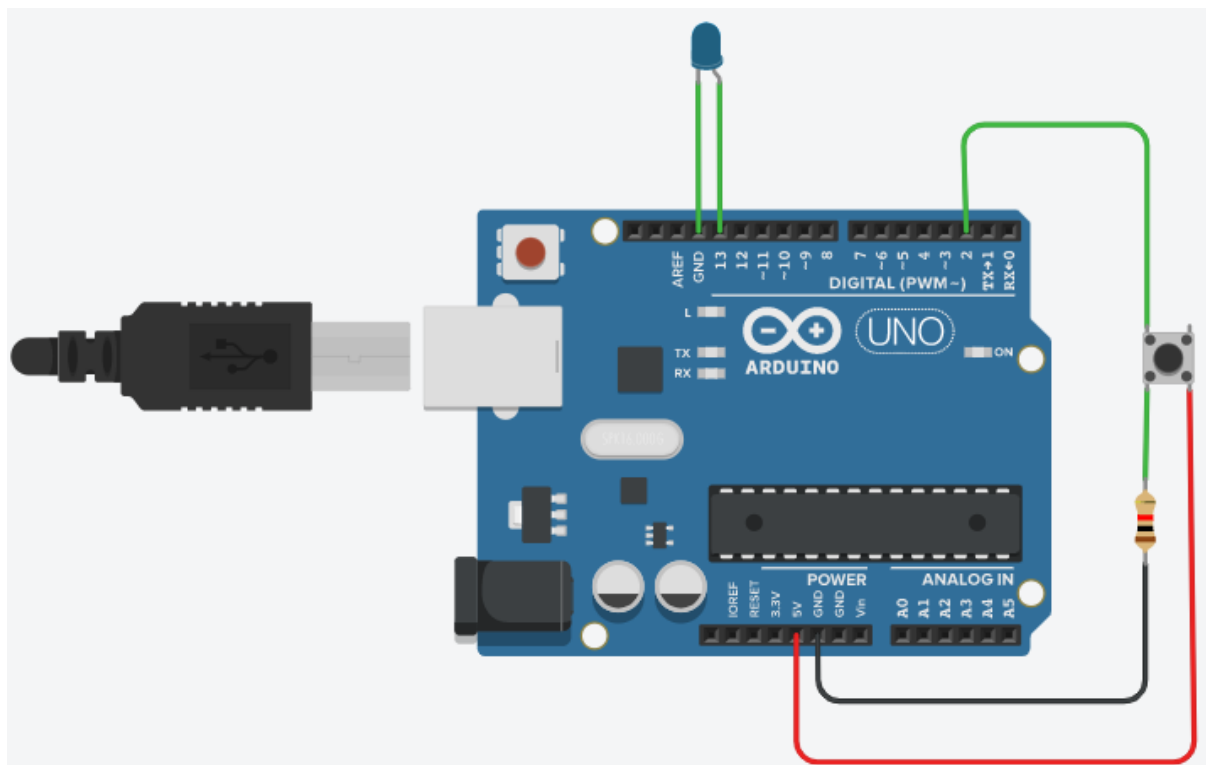
Program Title : Push Button Program

Aim :

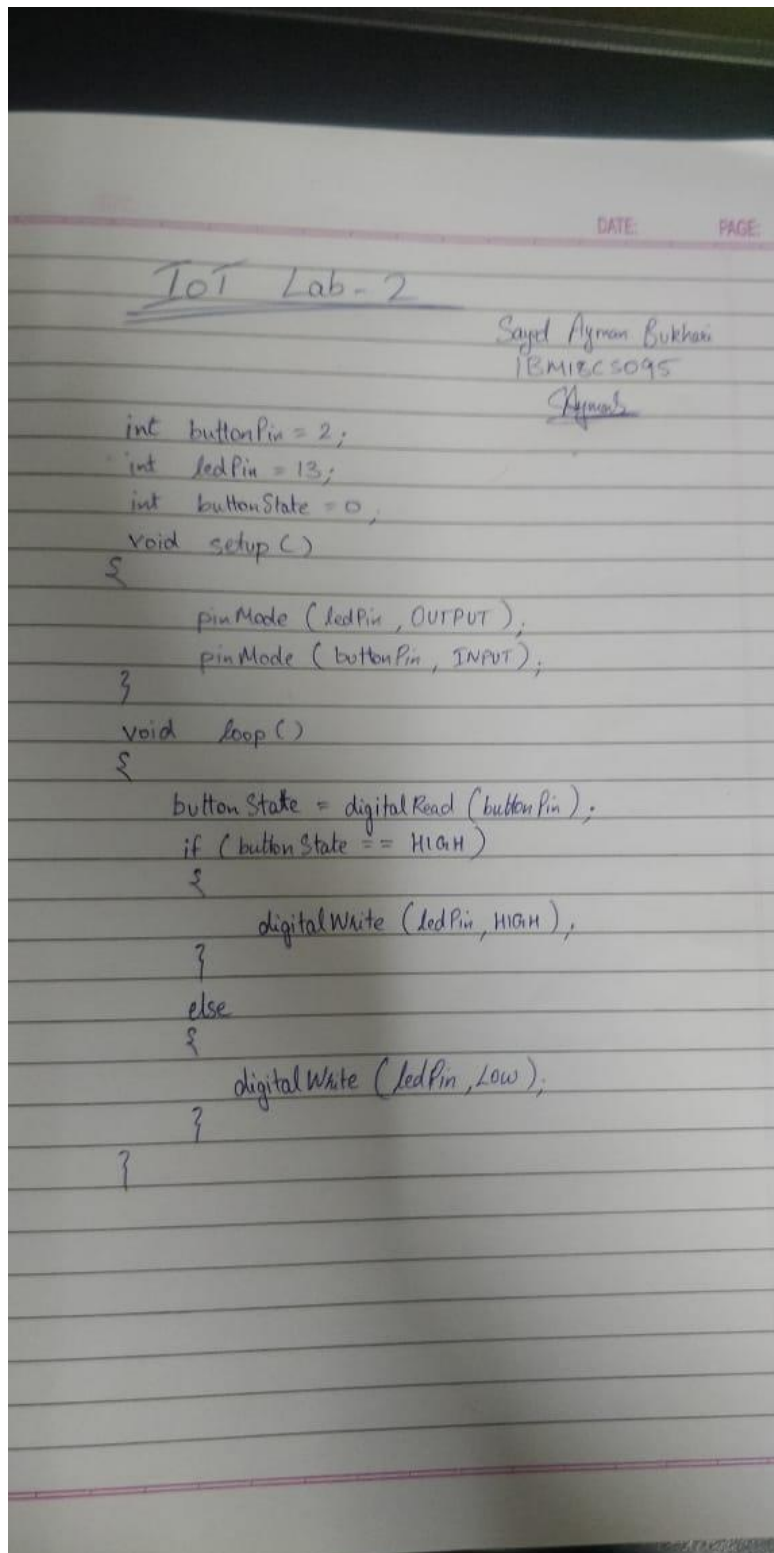To switch on the LED bulb using a button with an Arduino Uno board.

Hardware Required :

- Arduino Board
- LED bulb
- Push Button
- Resistor - 1K ohm

Circuit Diagram :

Written Code :

IoT Lab - 2

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```
int   buttonPin = 2;
int   ledPin = 13;
int   buttonState = 0;
void  setup ()
{
      pinMode (ledPin , OUTPUT);
      pinMode (buttonPin , INPUT);
}

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

Observation /Output :

The LED bulb lit up when the button was pushed.