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USN - 1BI418CS020

Program title - LED USING Push button

AIM - Demonstrate to show ON/OFF of a LED
     using Push button (Digital output)

→ Hardware Required -

· LED
· Arduino Board
· Pushbutton, Resistor

CODE -

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

Void setup()
{
Pin Mode (ledPin, OUTPUT);
Pin Mode (button pin, INPUT);
}
Void loop()

{ button state = digitalRead (buttonPin);
  if (buttonState = HIGH)

  {
  digitalwrite (ledPin, HIGH);
  }
  else
  { digitalwrite (ledPin, Low);
  }
}
```
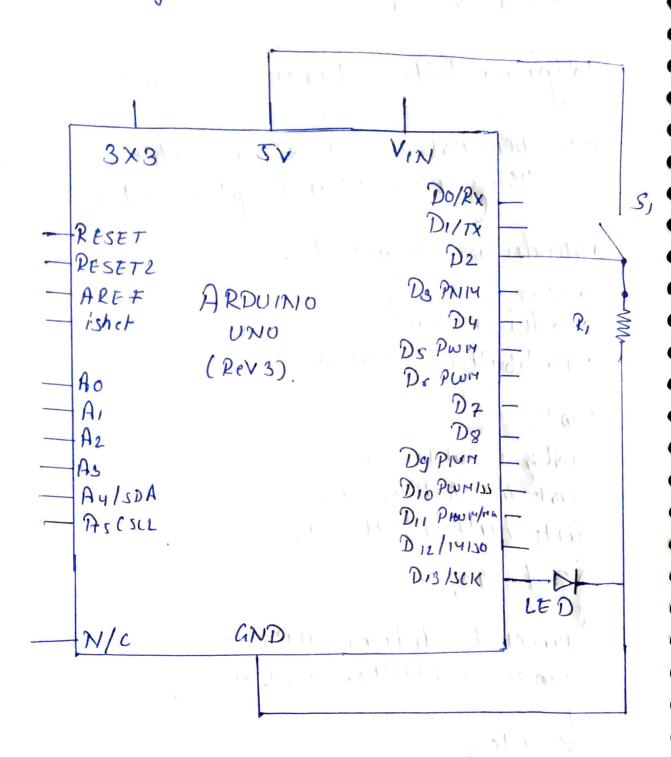
Circuit diagram +

3 X 3   5V V_{IN}

RESET

RESET2

AREF

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ARDUINO
UNO
(Rev 3).

A0

A1

A2

A3

A4/SDA

A5 (SCL

N/C   GND

D0/Rx

D1/TX

D2

D3 PNM

D4

D5 PWM

D6 PWM

D7

D8

D9 PWM

D10 PWM/ss

D11 PWM/M

D12/MISO

D13/SCK

LED

S_1

R_1