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

Arduino

5V VIN

RST
REF

D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13

A0
A1
A2
A3
A4
A5

GND

Button