Exp.5

Title - LED Using Pushbutton

- Aim-
Demostrate to show on/off of a LED using push button (Digital output)

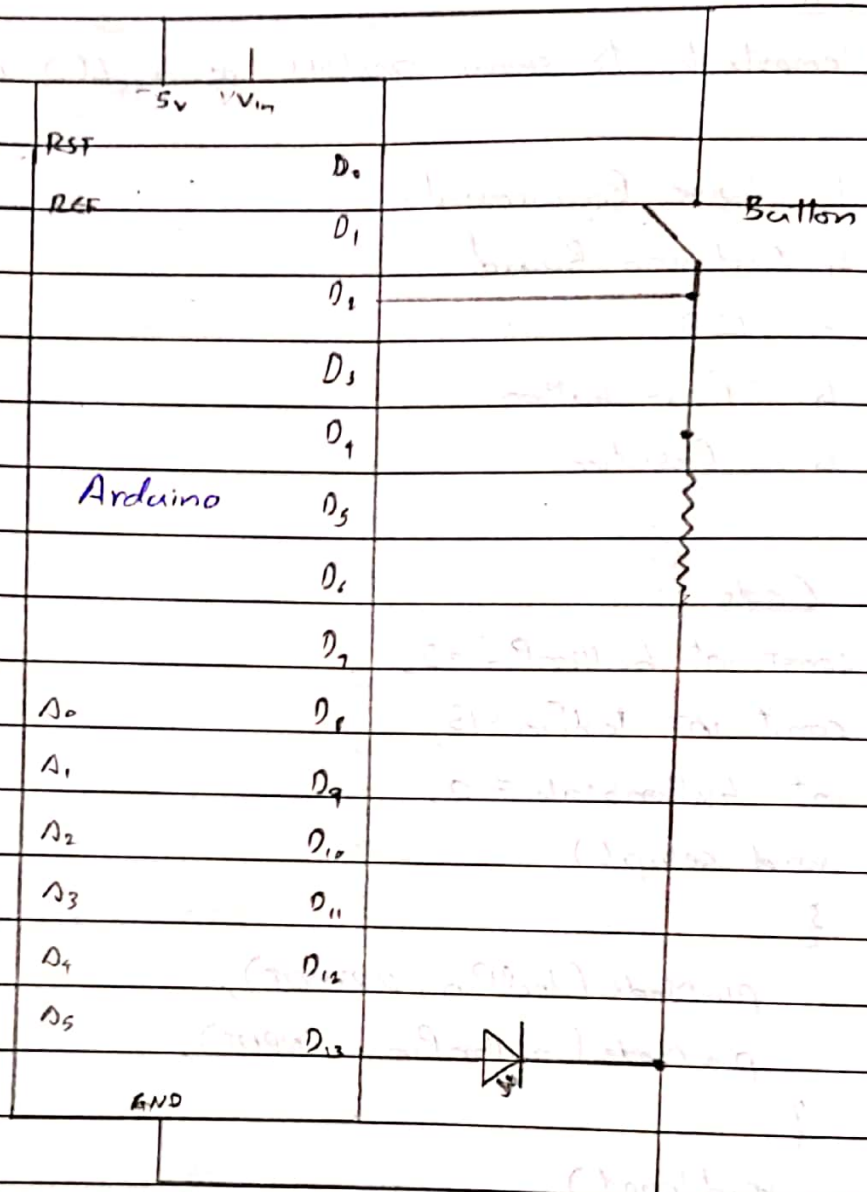- Hardware Requirement:
  ↳ Arduino Board
  ↳ LED
  ↳ Push button
  ↳ Resistor

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

①

5v Vin

RST

REF   D₀

                       D₁   Button

                       D₂

                       D₃

                       D₄

Arduino   D₅

                       D₆

                       D₇

A₀   D₈

A₁   D₉

A₂   D₁₀

A₃   D₁₁

A₄   D₁₂

A₅

                       D₁₃

        GND

②