O-LEVEL

M4R5

PR-4

IOT

ARDUINO PROGRAMMING

Embedded C.

"INTERNET OF THINGS"

"वस्तुओं का संग्रह"

P1 INTERFACING LED:

LED — Two terminal semiconductor

Anode (+)

Cathode (−)

Use resistor with LED

(Resistor limits the current flowing through LED.

use 100Ω to 10kΩ

use 150Ω.

Component Required

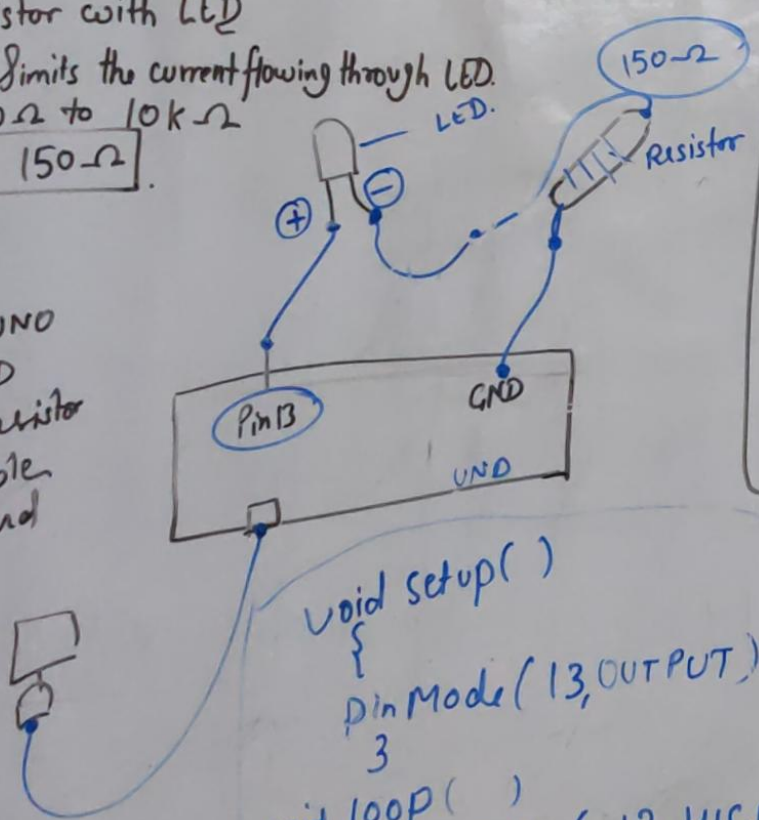
Arduino UNO

5mm LED

150Ω Resistor

Jumper Cable

BreadBoard

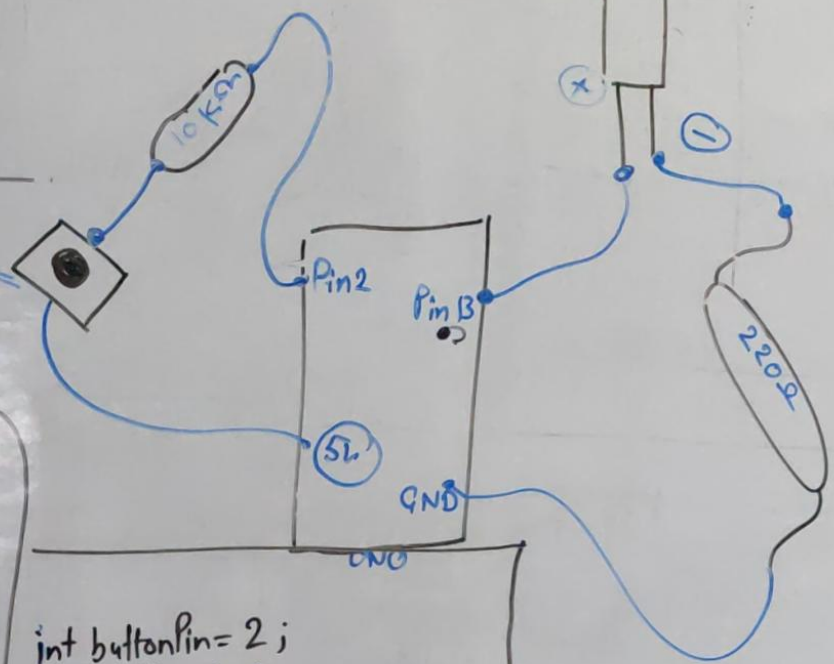


INTERFACING BUTTON :

Component

UNO

- Push Button
- LED
  - 220Ω
  - 10kΩ




```
int buttonPin = 2;
int ledPin = 13;
int buttonState = 0;
void setup( )
  {
  Serial.begin(9600);
  pinMode(13, OUTPUT);
  pinMode(2, INPUT);
  }
void loop( )
  {
  buttonState = digitalRead(buttonPin);
  Serial.println(buttonState);
if( buttonState == HIGH)
  {digitalWrite(ledPin, HIGH)
  }
```

```
else
  {
digitalWrite(ledPin, LOW);
}
delay(2000);
}
```

```
void setup( )
  {
  pinMode(13, OUTPUT)
  }
void loop( )
digitalWrite(13, HIGH);
   delay(2000);
digitalWrite(13, LOW);
  delay(2000);
}
```

```
for(int i; i<=7; i++)
{
lcd.setCursor(q, )
char
```