③
Led pushbutton:-

Aim:- led going on/off when pushbutton is
pressed.

Hardware Required:-

- An Arduino Board
- LED
- pushbutton
- Resistor (1kΩ)
- Jumper wires

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);
```

③ led pushbutton:-

Arduino

AREF
GND
13 12 ~11 ~10 ~9 8 7 ~6 ~5 4 ~3 2 TX~1 RX~0

Digital In/ouT

RESET
3.3V
5V
Vin
Analog in
A0-A5