**Practical 1**

**Aim:** Controlling the Light Emitting Diode (LED) with a push button.

const int buttonPin = 7; // choose the pin for the pushbutton

const int ledPin = 11; // choose the pin for a LED

int buttonState = 0; // variable for reading the pushbutton pin status

void setup()

{

pinMode(ledPin, OUTPUT); // declare LED as output

pinMode(buttonPin, INPUT); // declare pushbutton as input

}

void loop()

{

buttonState = digitalRead(button Pin); // read input value

if (buttonState == HIGH)

{ // check if the input is HIGH (button pressed)

digitalWrite(ledPin, HIGH); // turn LED ON

}

else

{

digitalWrite(ledPin, LOW); // turn LED OFF}}

**OUTPUT** :

