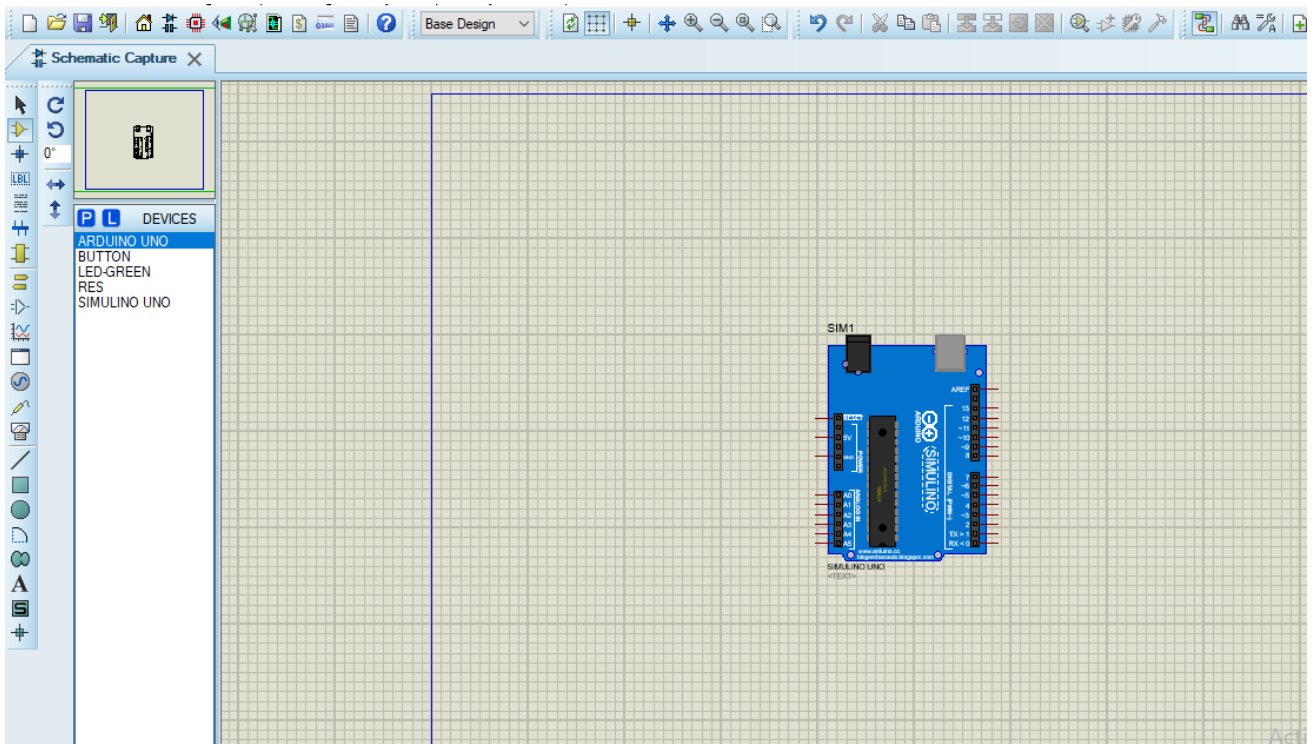




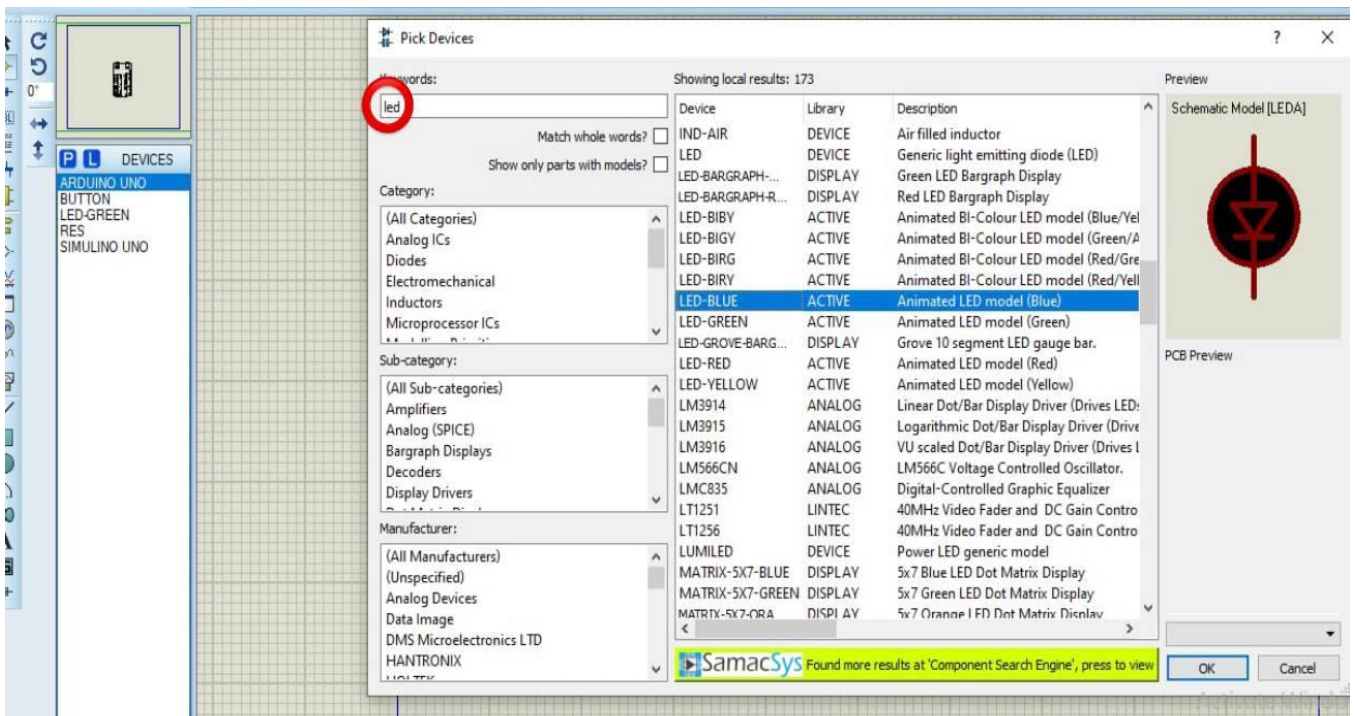
## Single LEDs with button

*By:*  
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*Adyan Hussein*

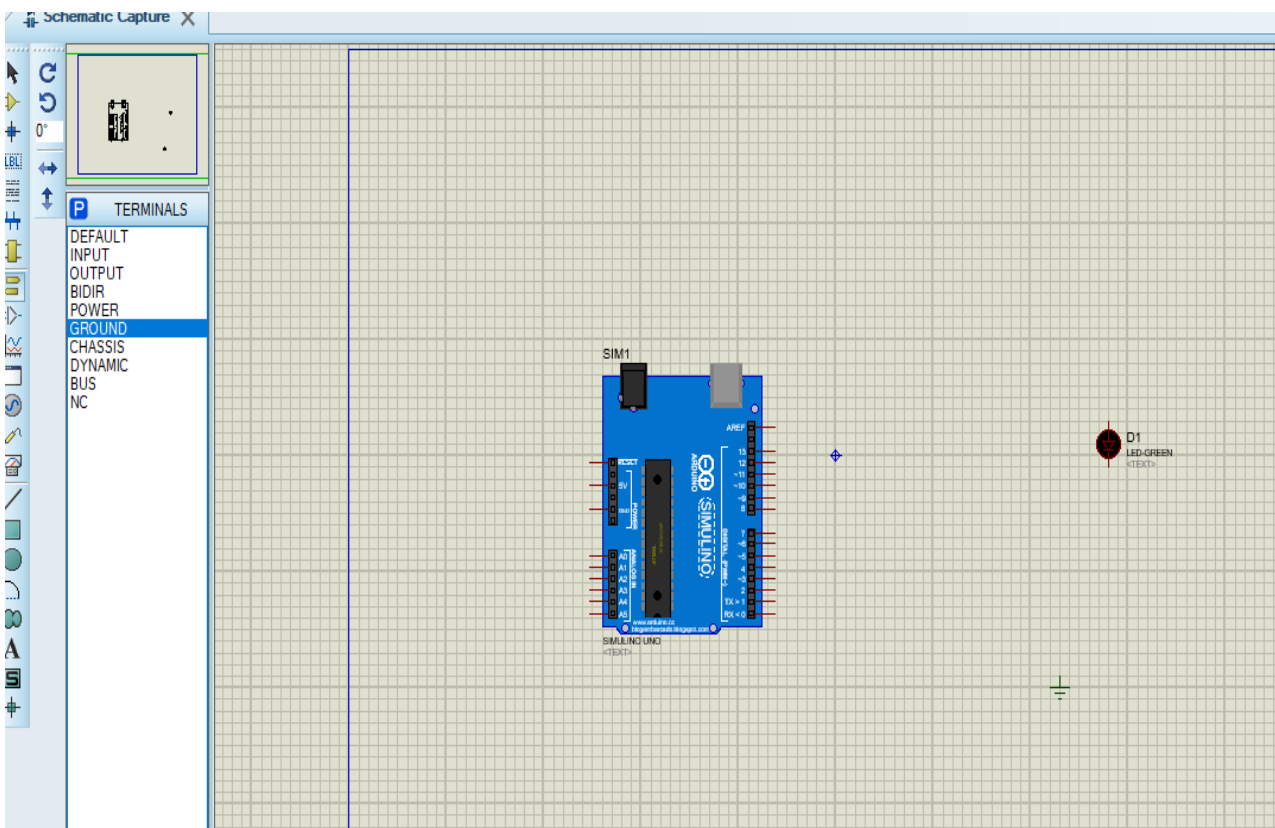
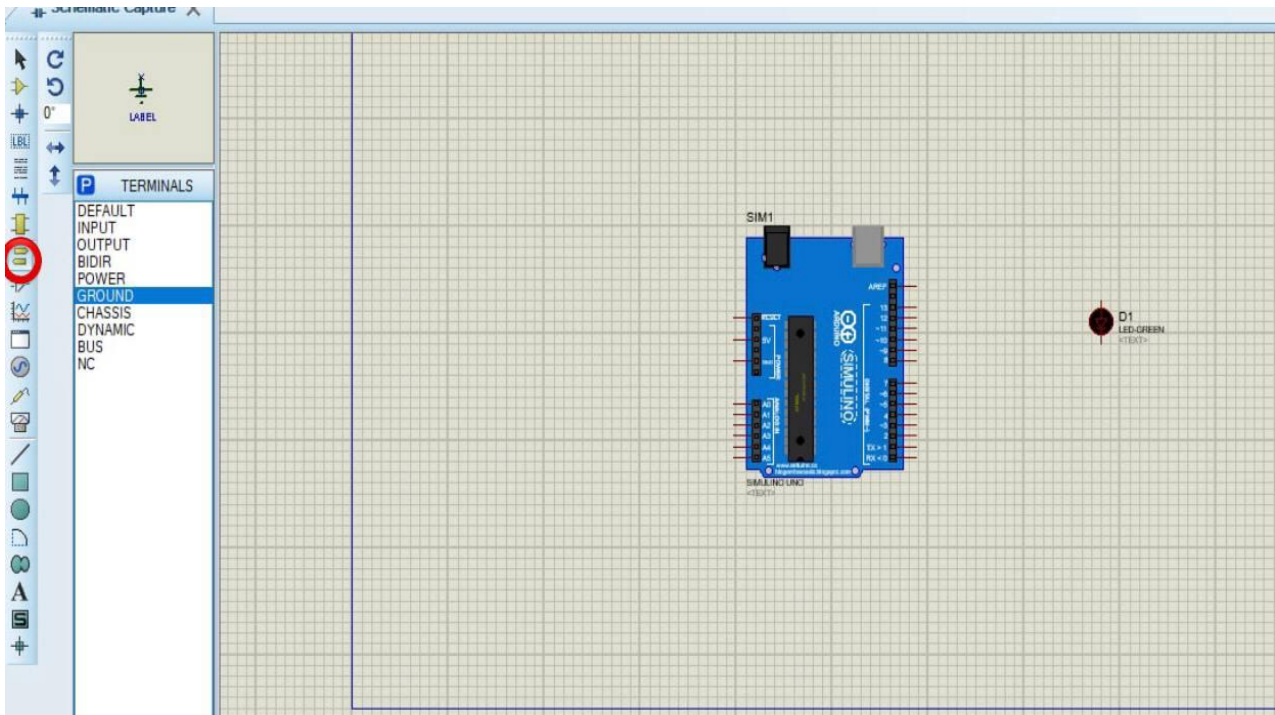
1. Open Proteus and choose Arduino UNO from library.



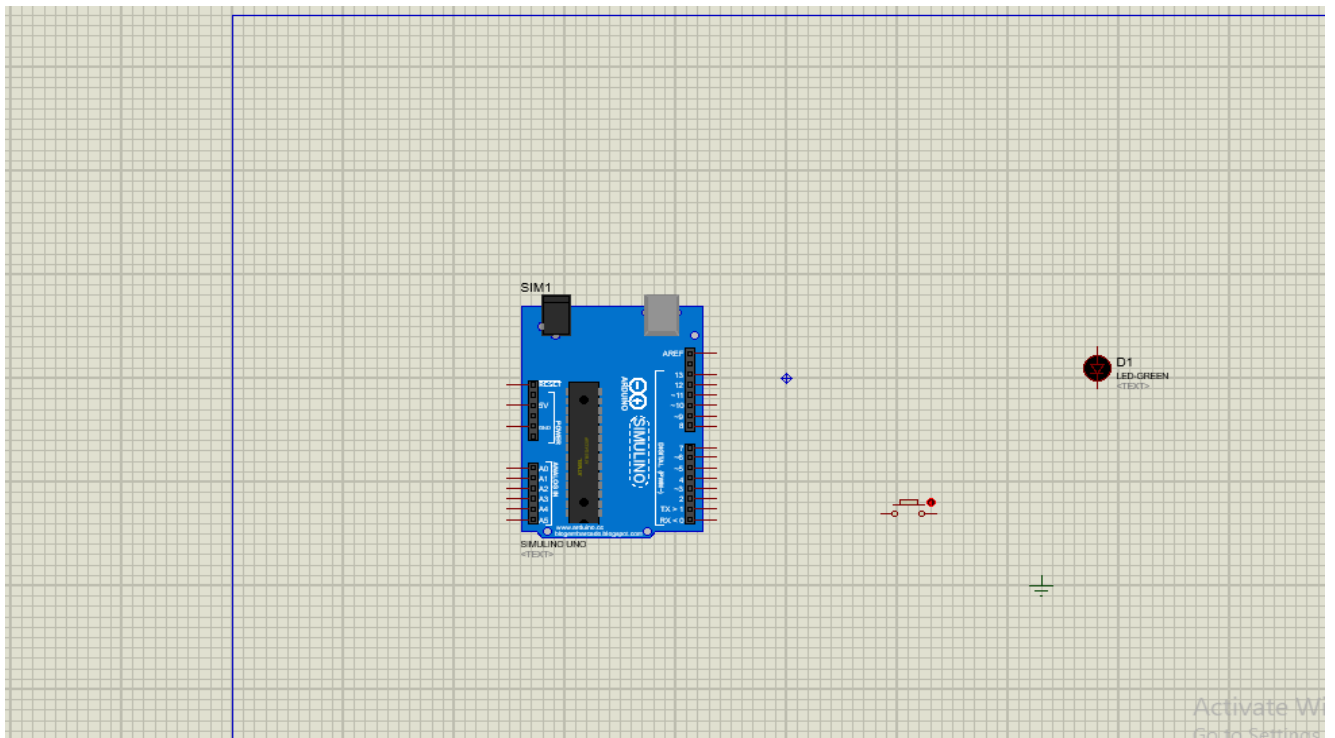
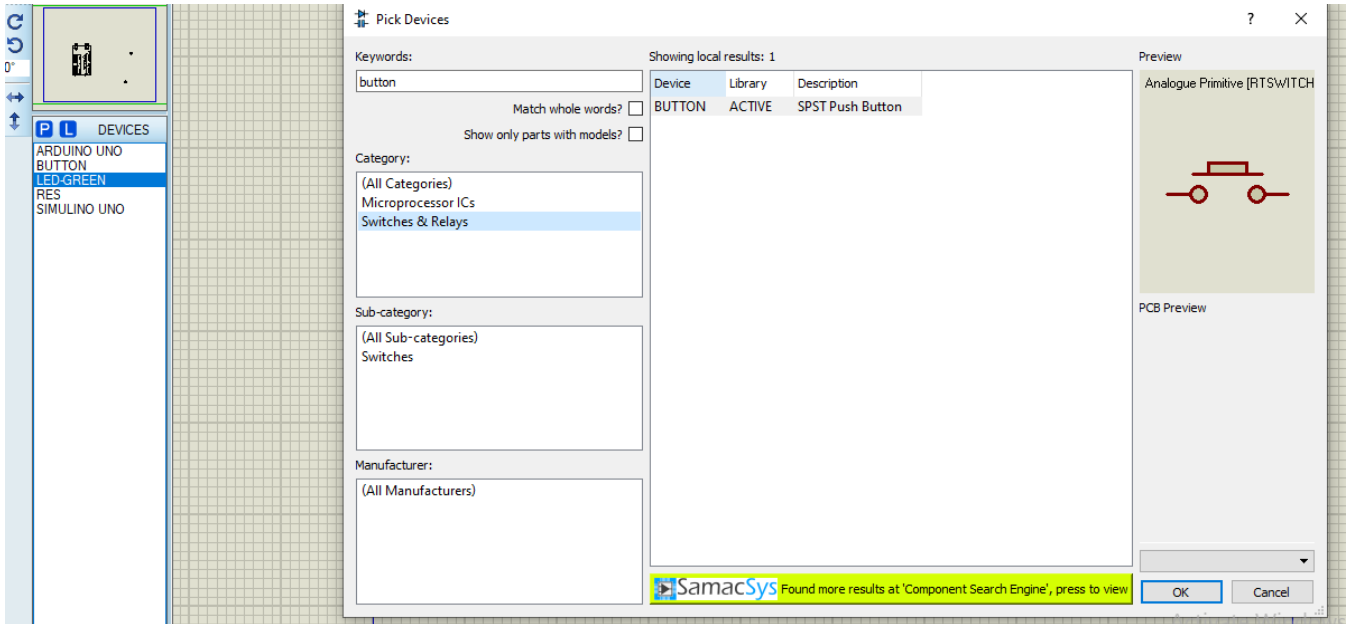
2. Choose LED .



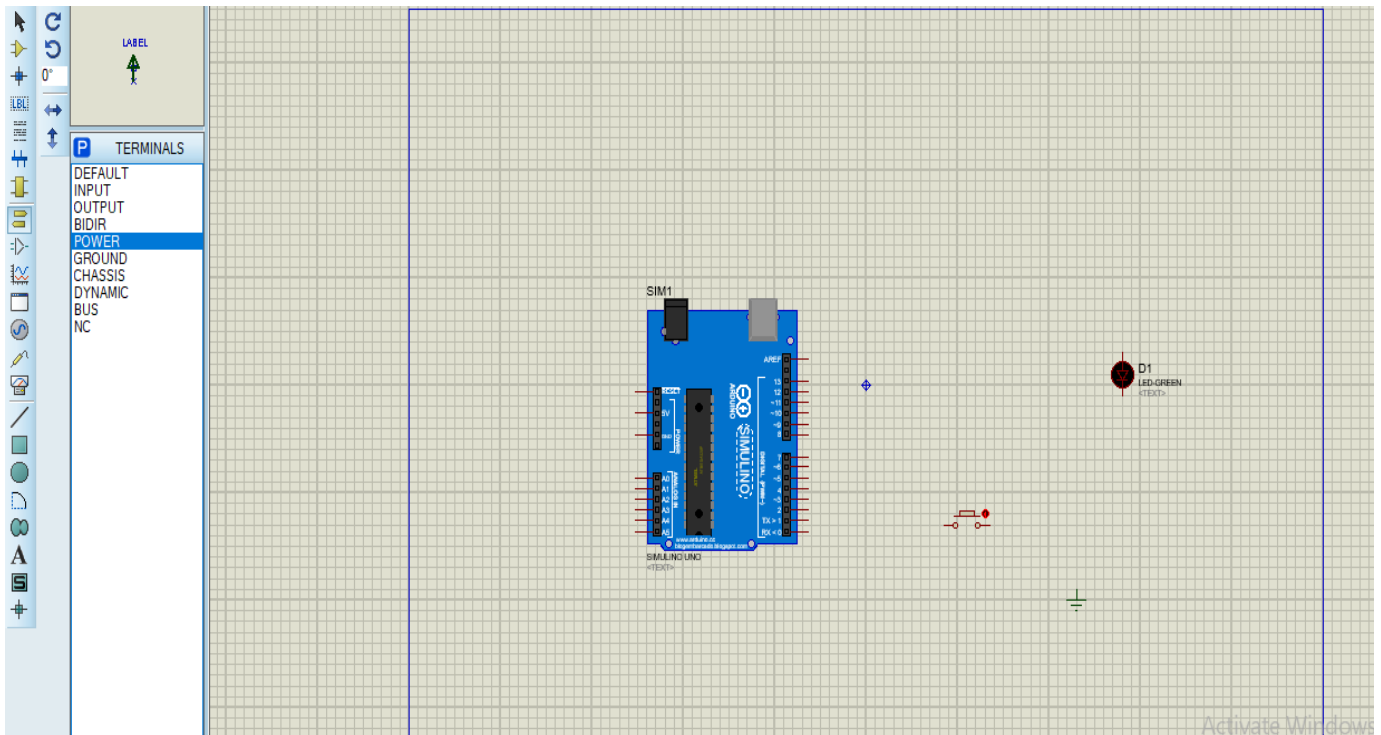
### 3. Choose ground .



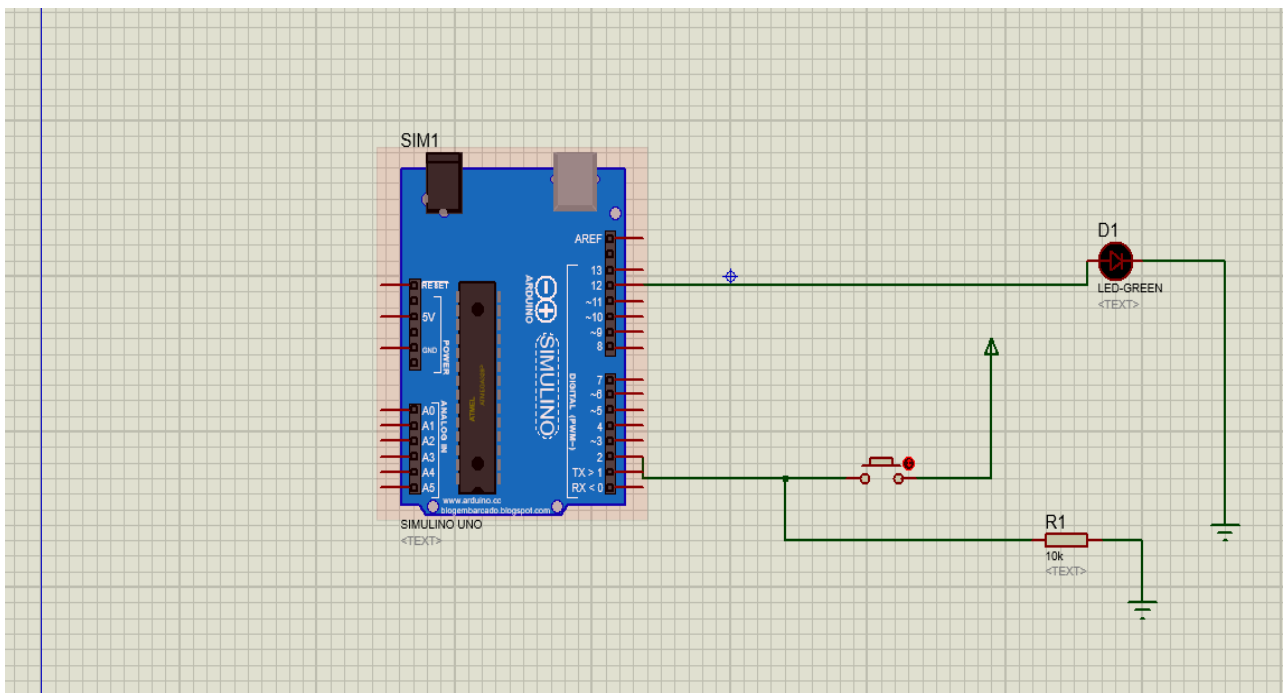
#### 4. Choose button.



## 5. Choose power object.



## 6. Connect the circuit as shown below.



## Sketch

```
const int ledpin=12;
const int button=2;
int state =0;

void setup() {
  // put your setup code here, to run once:
  pinMode(ledpin,OUTPUT);
  pinMode(button,INPUT);
  digitalWrite(ledpin,LOW);
}

void loop() {
  // put your main code here, to run repeatedly:
  state=digitalRead(button);
  if (state==1)
  {
    digitalWrite(ledpin,HIGH);
  }
  else
  {
    digitalWrite(ledpin,LOW);
  }
}
```

**Note: To run the code export the hex file to Proteus.**