

```
const int buttonPin =2;
const int ledPin=8;
int State=0;
int buttonStateprevious = LOW ;
int buttonState = LOW;

void setup(){
  pinMode (buttonPin, INPUT_PULLUP);
  pinMode(ledPin, OUTPUT);
}

void loop(){
  buttonState = digitalRead(buttonPin);
  if (buttonState != buttonStateprevious && buttonState == HIGH){
    if (State == 1){
      State = 0;
    } else {
      State = 1;
    }
  }
  if(State == 1){
    digitalWrite(ledPin, LOW);
  } else{
    digitalWrite(ledPin, HIGH);
  }
  buttonStateprevious = buttonState;
}
```