

Task2 electrical engineering :

```
1  int pbuttonpin =2;
2  int relaypin=10;
3  int
4      val=0;
5  int lightON=0;
6  int pushed=0;
7
8  void setup(){
9      Seral.begin(9600);
10     pinMode(pbuttonpi,INPUT_PULLUP);
11     pinMode(relaypin,OUTPUT);
12 }
13
14 void loop() {
15
16     val=digitalRead(pbuttonpin);
17     if(val==HIGH && lightON == LOW)
18         pushed = 1-pushed;
19     delay(100);
20 )
21     lightON =val;
22     if(pushed == HIGH){
23         Serial.println("Light ON");
24         digitalWrite(relaypin ,LOW);
25
26     }else
27         Serial.println(Light OFF);
28         digitalWrite(relaypin, HIGH);
29
30     delay(100);
31
```

Serial Monitor

