

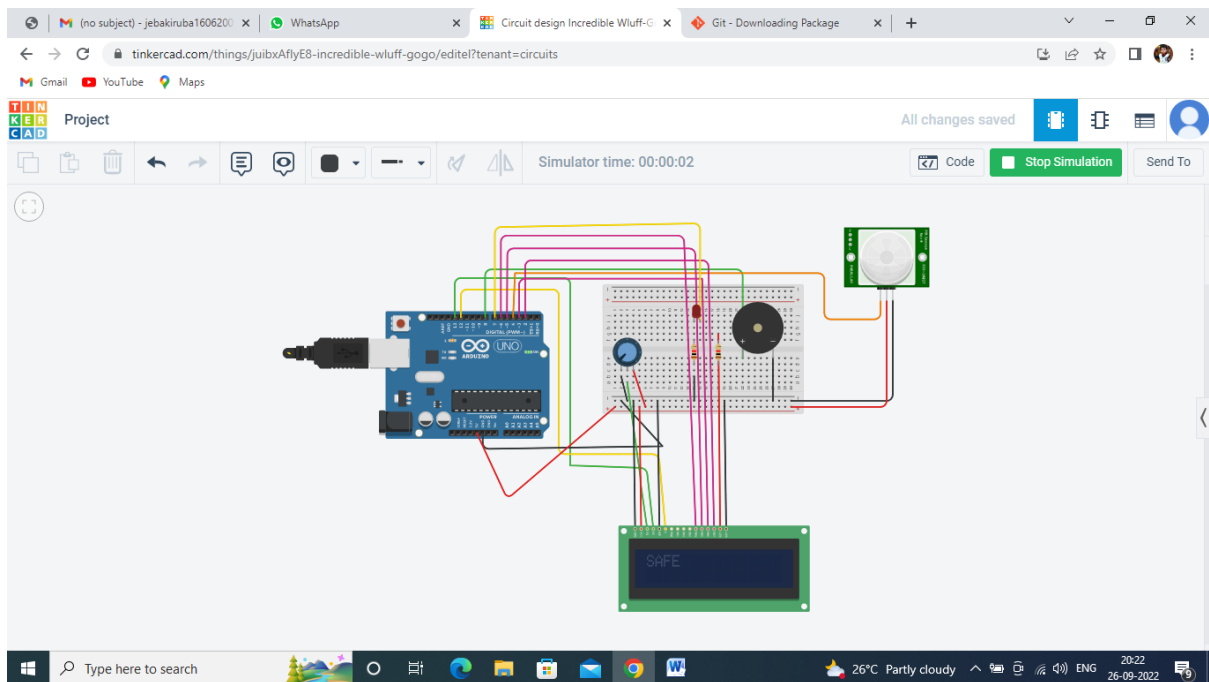
ASSIGNMENT 1

Team ID	PNT2022TMID16859
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Description:

This is our assignment assigned on Day-3

We have given a challenge to create 4 sensors for Home Automation .We have created a Security Alert System for home. We have used led, potentiometer, buzzer, LCD, PIR sensor. In case ,if a thief comes HE/SHE will be detected by PIR sensor and it give signal to LED to glow, buzzer to produce sound, LCD to display a message (means alert by light, sound, message).



Code:

```
#include<LiquidCrystal.h>
LiquidCrystal lcd(13,12,6,5,3,2);
int led=7;
int PIR=4;
int buzzer=8;
int PIRstatus;
void setup()
{
  lcd.begin (16,2) ;
  pinMode (led, OUTPUT) ;
  pinMode (buzzer, OUTPUT) ;
  pinMode (PIR, INPUT) ;
```

```
    lcd. clear () ;  
}  
  
void loop()  
{  
  
    PIRstatus=digitalRead (PIR) ;  
    if (PIRstatus==HIGH) {  
        lcd. clear () ;  
        digitalWrite (led, HIGH) ;  
        digitalWrite (buzzer, HIGH) ;  
        tone (buzzer, 300, 10000) ;  
        lcd. setCursor (0, 1) ;  
        lcd. print ("ALERT") ;  
  
        delay (7000) ;  
        lcd.clear() ;  
    }  
    else  
    {  
  
        lcd. setCursor (0, 0) ;  
        lcd.print ("SAFE") ;  
        digitalWrite (led, LOW) ;  
        digitalWrite (buzzer, LOW) ;  
    }  
    delay (1000) ;  
}
```