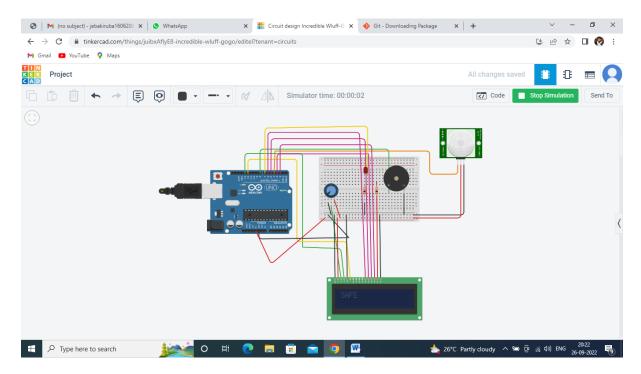# ASSIGNMENT 1

Team ID	PNT2022TMID16859

Description:

This is our assignment assigned on Day-3

We have given a challenge to you 4sensor for Home Automation .We have created a Security Alert for the home, we have used led, potentiometer, buzzer, LCD, PIR sensor.
In case ,if a thief comes 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 () ;
```

```arduino
}

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) ;
}
```