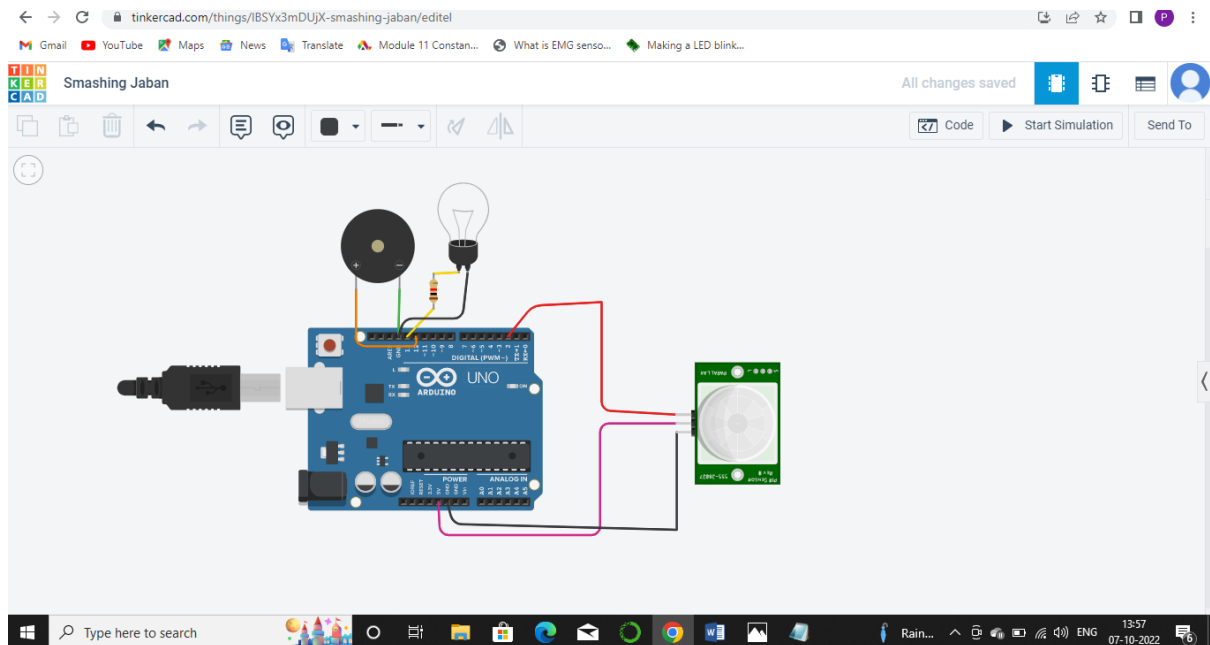
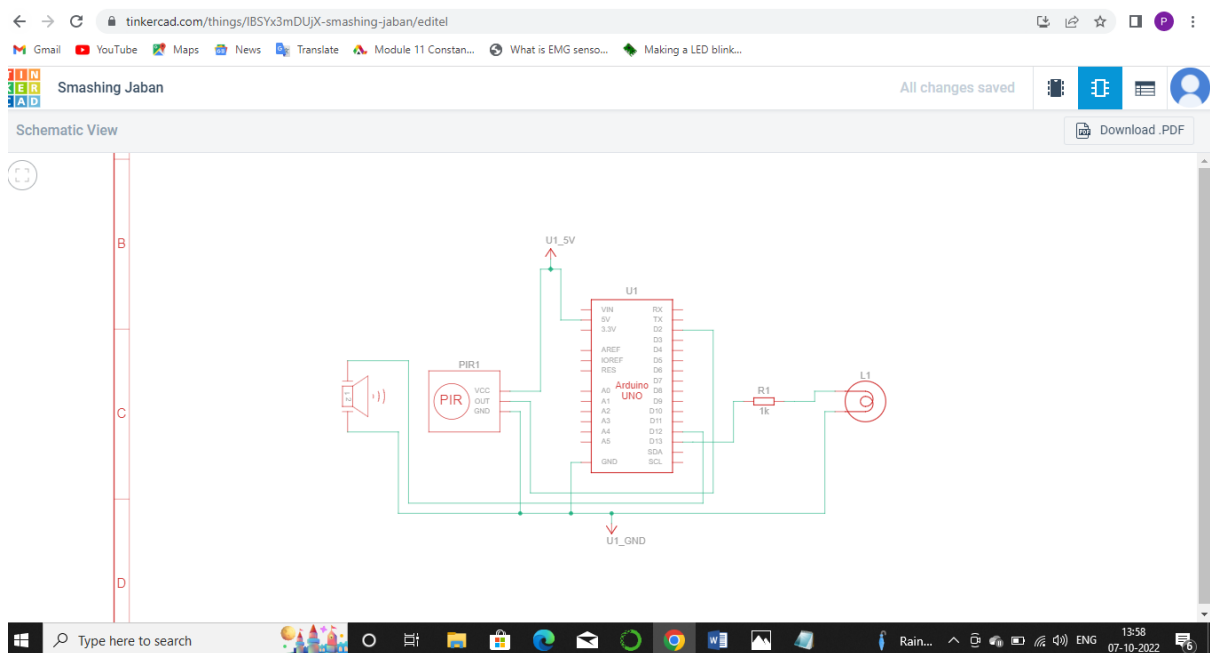


ASSIGNMENT 1

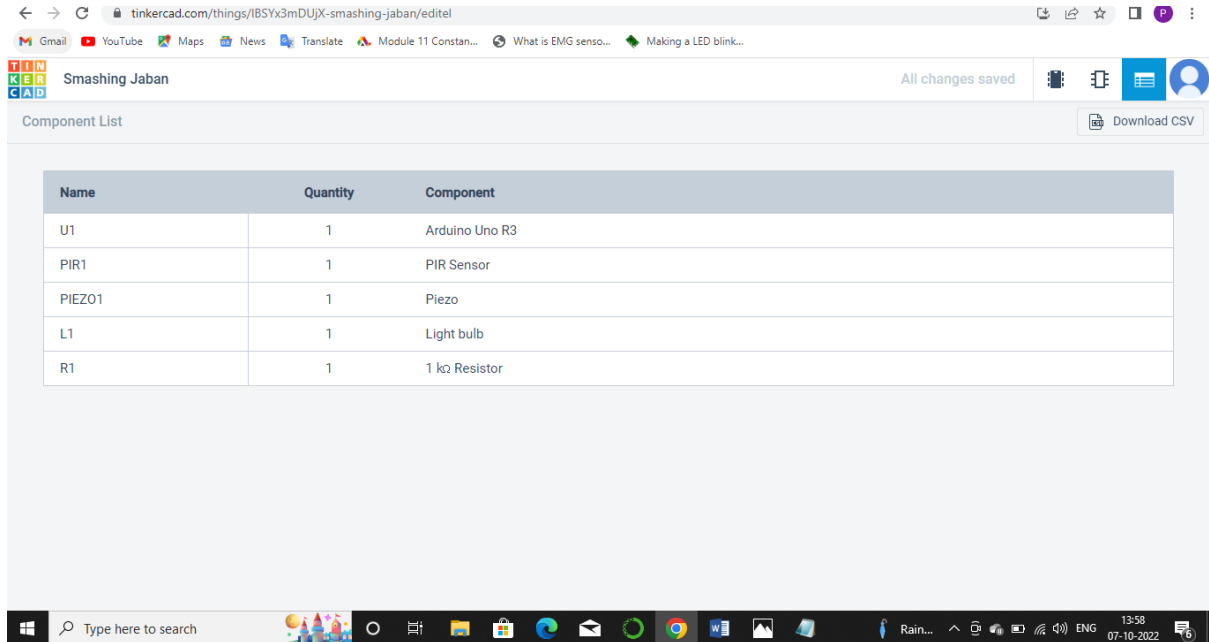
CONNECTION:



SCHEMATIC DIAGRAM:



COMPONENTS:



The screenshot shows the Tinkercad web interface. At the top, the browser address bar displays 'tinkercad.com/things/IBSYx3mDUjX-smashing-jaban/edit'. Below the browser, the Tinkercad header includes the logo, the project name 'Smashing Jaban', a status 'All changes saved', and icons for components, code, and a user profile. A 'Component List' tab is active, showing a table with the following data:

Name	Quantity	Component
U1	1	Arduino Uno R3
PIR1	1	PIR Sensor
PIEZ01	1	Piezo
L1	1	Light bulb
R1	1	1 kΩ Resistor

At the bottom of the screenshot, the Windows taskbar is visible, showing the search bar and various application icons. The system clock indicates the time is 13:58 on 07-10-2022.

CODE:

```
int sensorstate=0 ;

void setup()
{
  pinMode(2, INPUT);
  pinMode(13, OUTPUT);
  pinMode(12,OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  sensorState = digitalRead(2);
  if (sensorState == HIGH) {
    digitalWrite(13, HIGH);
    digitalWrite(12,HIGH);
  }
}
```

```
Serial.println("Sensor activated!");  
}  
else {  
    digitalWrite(13, LOW);  
    digitalWrite(12, LOW);  
}  
delay(10);  
}
```