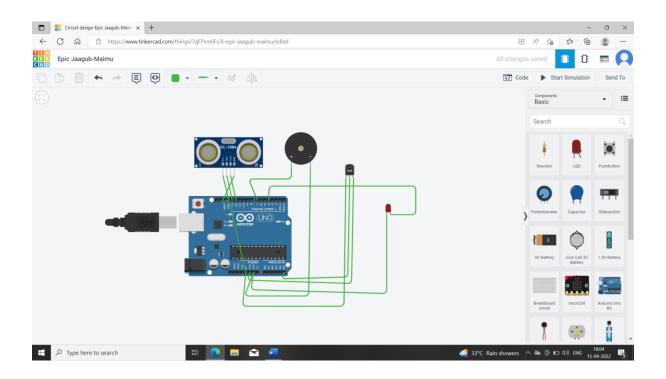
ASSIGNMENT:

Program:

```
int trigPin = 13; // TRIG pin
int echoPin = 12;// ECHO pin
int buzzer=7;
int Tmp=A5;
int led=4;
float duration, distance, voltage;
void setup() {
Serial.begin (9600);
 pinMode(trigPin, OUTPUT);
 pinMode(echoPin, INPUT);
 pinMode(buzzer, OUTPUT);
 pinMode(Tmp, INPUT);
 pinMode(led, OUTPUT);
 }
void loop(){
 digitalWrite(trigPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(trigPin, LOW);
 duration = pulseIn(echoPin, HIGH);
 int reading = analogRead(Tmp);
 voltage = reading* 0.480;
 distance = 0.017*duration;
 Serial.print("distance: ");
 Serial.print(distance);
 Serial.print("voltage:");
 Serial.print(voltage);
delay(1000);
  if (distance<50 | |voltage<20)
```

```
{
digitalWrite(buzzer, HIGH);
    digitalWrite(led, HIGH);
}
else
{
    digitalWrite(buzzer, LOW);
    digitalWrite(led, LOW);
    }
}
```

CONECTION DIAGRAM:



OUTPUT:

