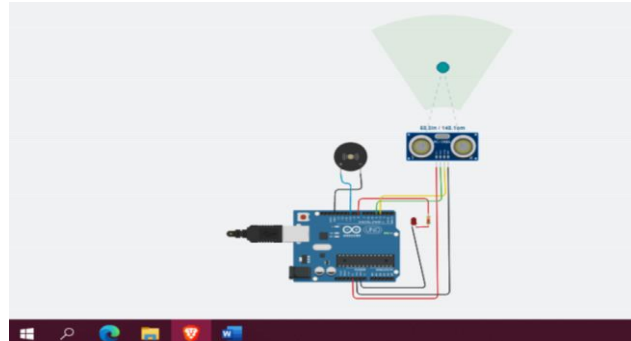


# Assignment -1

## Circuit Design



## Program (code):

```
int t=4; int
a=3; int
b=10; int
time; int
distance;
void setup()

{
  pinMode(8,OUTPUT);
  pinMode(3,INPUT);
  pinMode(4,OUTPUT);
  pinMode(10,OUTPUT);

  Serial.begin(9600); }
void loop() {
  digitalWrite(t, HIGH);
```

```
delayMicroseconds(10);
digitalWrite(t, LOW);
delayMicroseconds(10);
time=pulseIn(a,HIGH);
distance=(time*0.034)/2;
if(distance<=100)

{
    Serial.print("Distance= ");
    Serial.println(distance);
    digitalWrite(8,HIGH);
    delay(10);
    digitalWrite(10,LOW);
    delay(10); } else

{
    Serial.print("Distance= ");
    Serial.println(distance);    digitalWrite(8,LOW);    delay(10);
    digitalWrite(10,HIGH);    delay(10);
} }
```