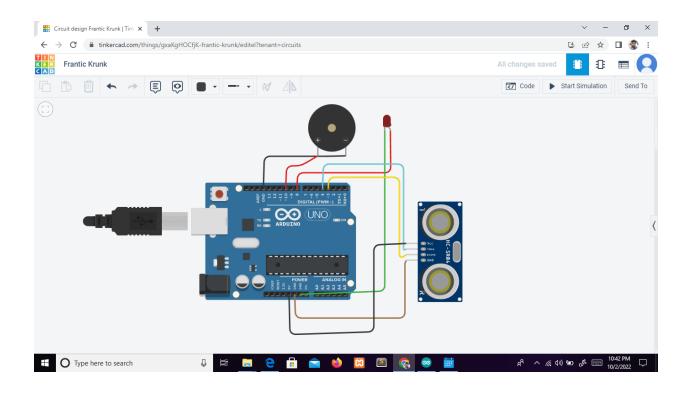
Assignment – 1

Circuit Diagram



Program Coding

```
int trigpin=4;
int echopin=3;
int buzzerpin=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(trigpin, HIGH);
 delayMicroseconds(1000);
 digitalWrite(trigpin, LOW);
 delayMicroseconds(1000);
 time=pulseIn(echopin,HIGH);
 distance=(time*0.034)/2;
 if(distance<=10)
  Serial.print("Distance= ");
  Serial.println(distance);
  digitalWrite(8,HIGH);
  delay(1000);
  digitalWrite(10,LOW);
  delay(1000);
 }
 else
  {
  Serial.print("Distance= ");
  Serial.println(distance);
  digitalWrite(8,LOW);
  delay(1000);
  digitalWrite(10,HIGH);
  delay(1000);
  }
}
```

OUTPUT

