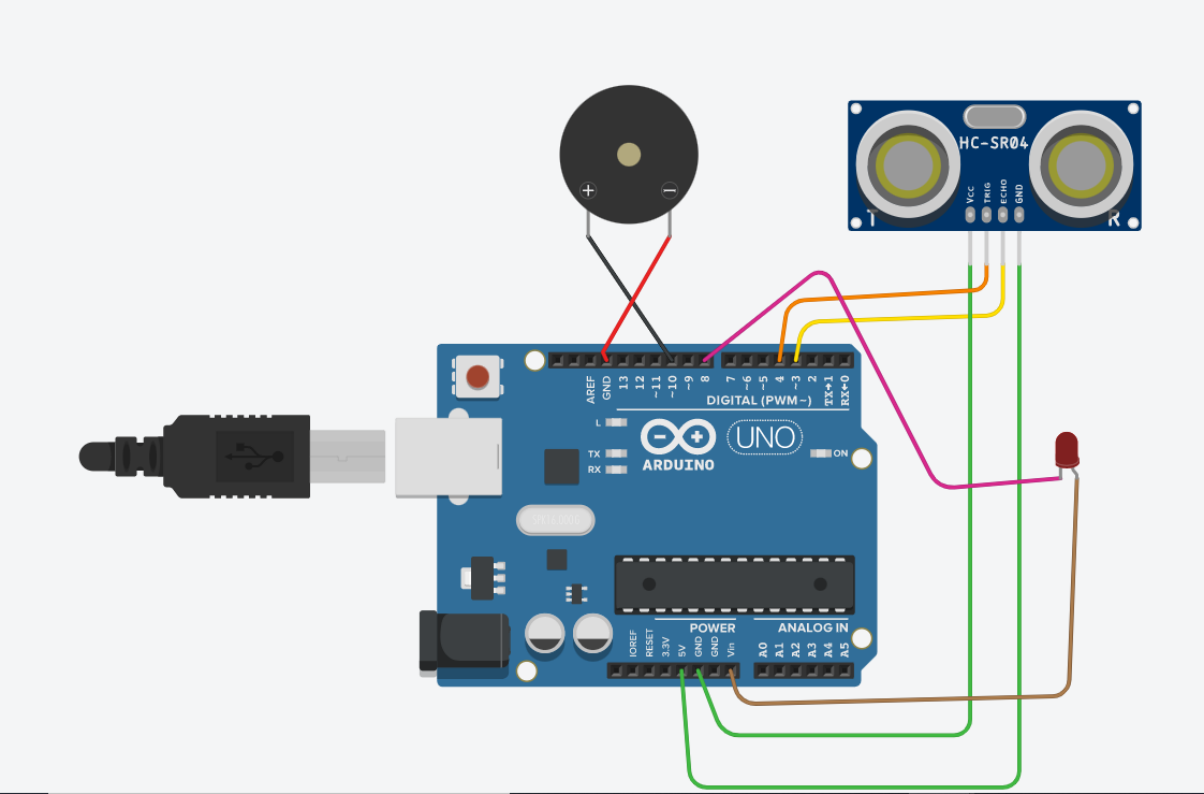
Assignment 1

Circuit:



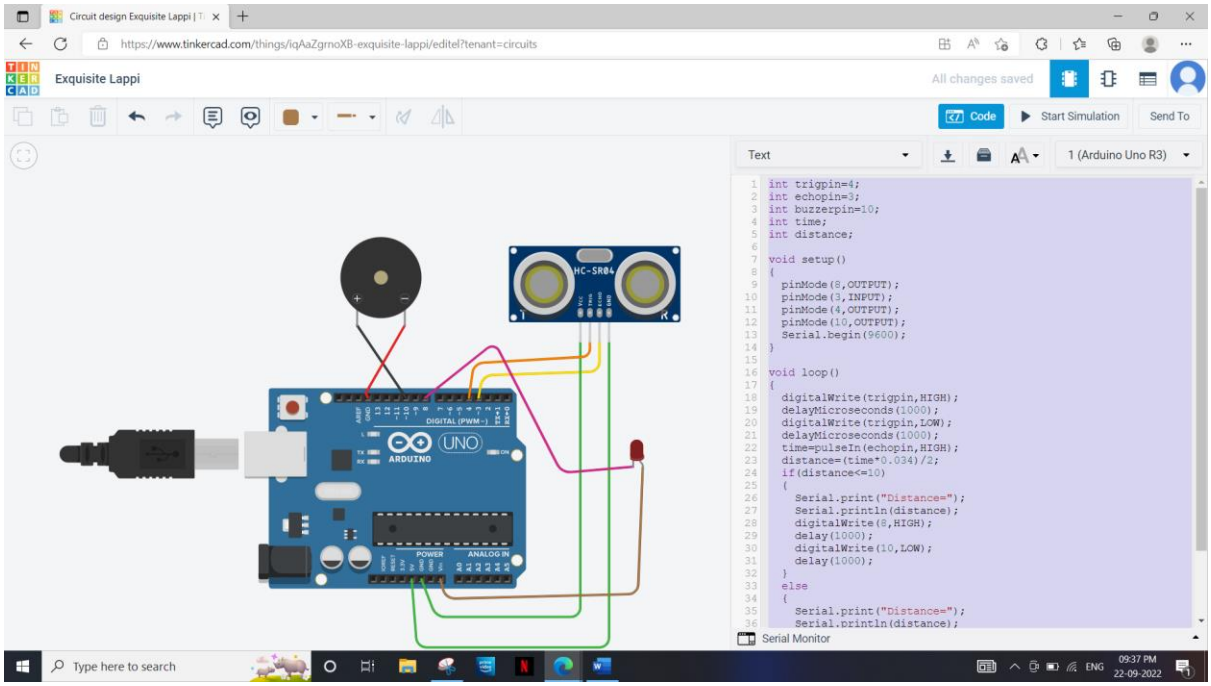
Code:

```
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);
  }
}
```


Circuit design Exquisite Lappi | T
https://www.tinkercad.com/things/iqAaZgrnoXB-exquisite-lappi/editel?tenant=circuits
Exquisite Lappi
All changes saved
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
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);
Serial Monitor
HC-SR04
UNO
ARDUINO
DIGITAL (PWM~)
POWER
ANALOG IN
Type here to search
ENG
09:37 PM
22-09-2022