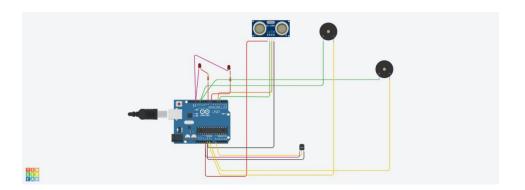
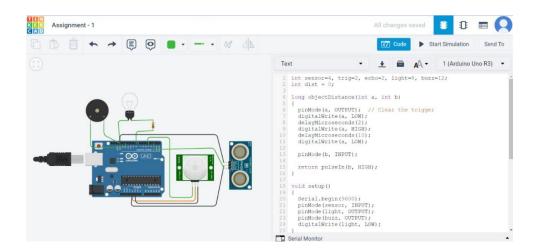
Assignment – 1





CODE:

```
int sensor=4, trig=2, echo=2, light=8, buzz=12;
int dist = 0;

long objectDistance(int a, int b)
{
    pinMode(a, OUTPUT); // Clear the trigger
    digitalWrite(a, LOW);
    delayMicroseconds(2);
    digitalWrite(a, HIGH);
    delayMicroseconds(10);
    digitalWrite(a, LOW);

pinMode(b, INPUT);
```

```
return pulseIn(b, HIGH);
}
void setup()
 Serial.begin(9600);
 pinMode(sensor, INPUT);
 pinMode(light, OUTPUT);
 pinMode(buzz, OUTPUT);
 digitalWrite(light, LOW);
}
void loop()
{
 //readUltrasonicDistance(7, 7)
 dist = 0.01723 * objectDistance(trig, echo);
 Serial.print("Distance is ");
 Serial.print(dist);
 Serial.println("cm");
 if(dist>50 && dist<100)
 {
  tone(buzz, 50);
  delay(2000);
  noTone(buzz);
  //delay(1000);
  if(digitalRead(sensor))
   digitalWrite(light, HIGH);
   delay(2000);
 }
}
```