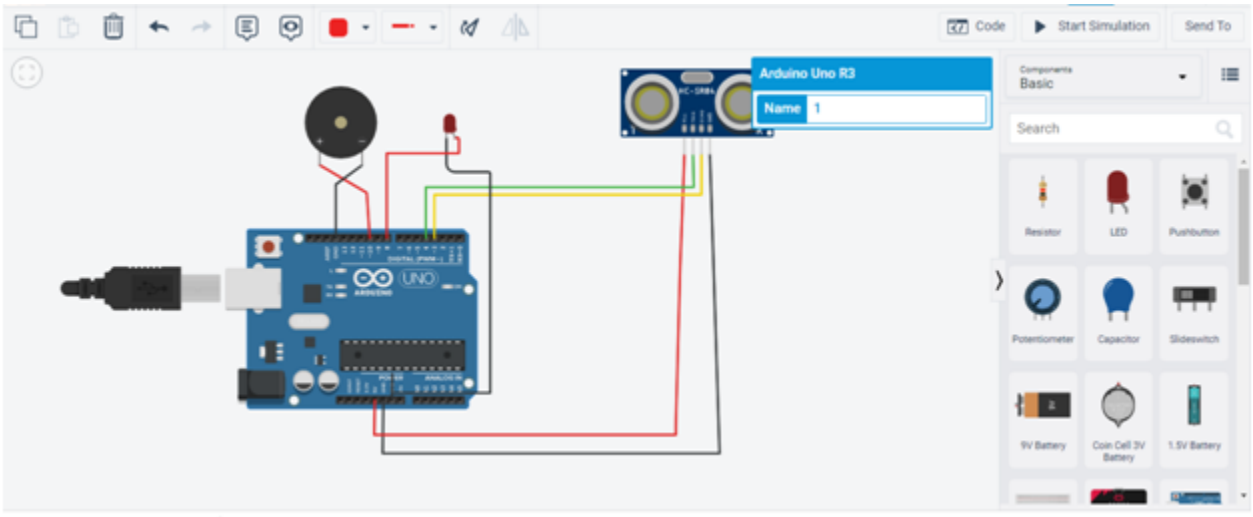
CIRCUIT DIAGRAM



Code:

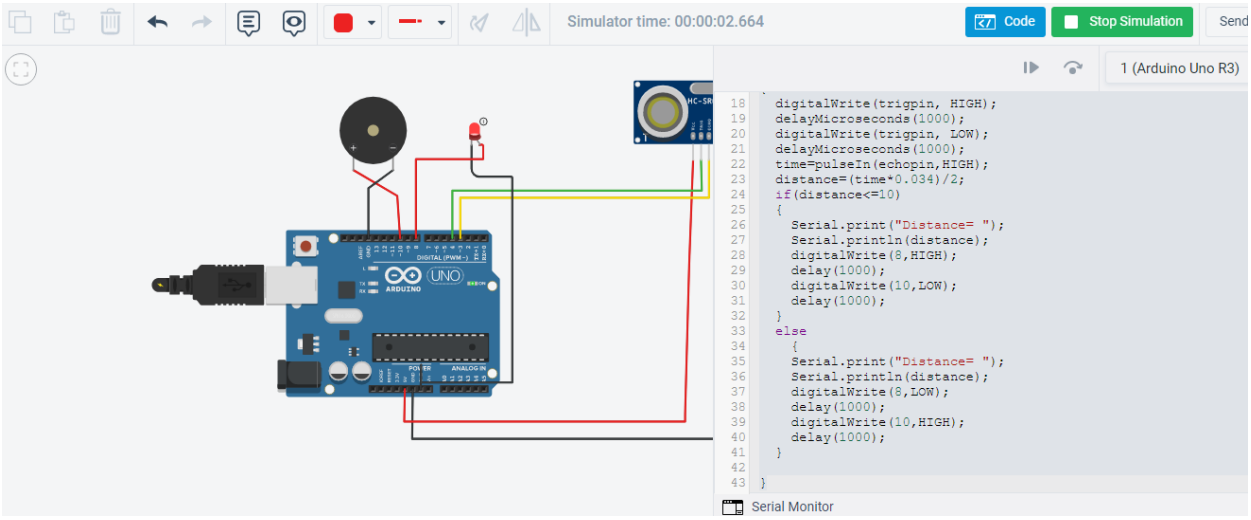
```
int trigpin=4;
int echopin=3;
int buzzerpin=10;
int time;
int distance;

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);
  }

}
```

OUTPUT


Simulator time: 00:00:02.664
Code
Stop Simulation
1 (Arduino Uno R3)
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);
}
}
Serial Monitor