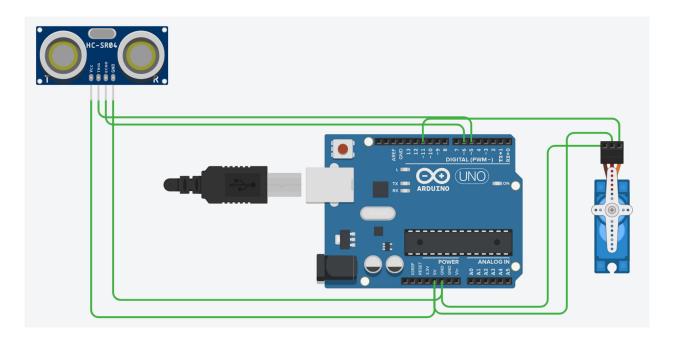
Assignment-2 Sri Balaji J

Circuit:



Code:

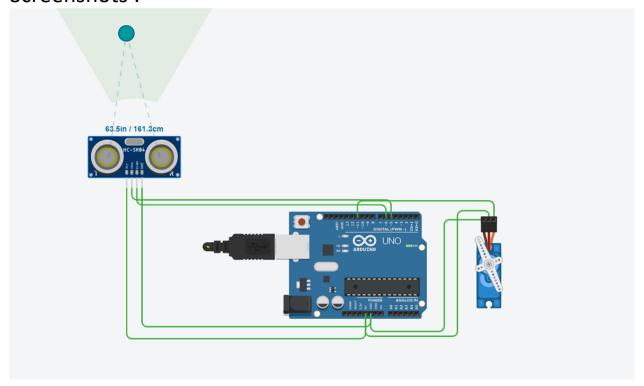
```
#include <Servo.h>
Servo myservo;
int pos = 20;
const int trigPin = 5;
const int echoPin = 6;
const int led = 13;

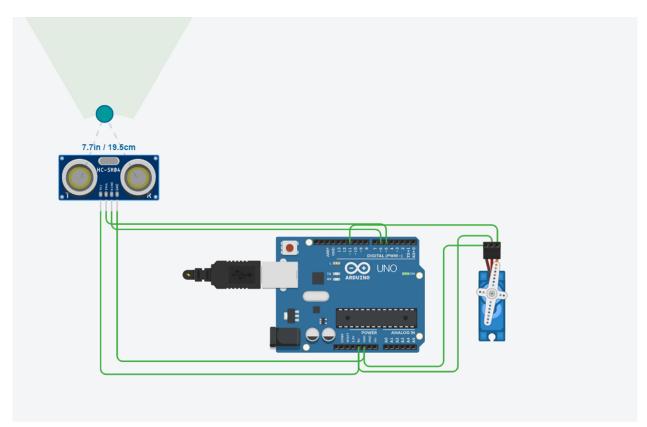
long duration;
float distance;

void setup()
{
    myservo.attach(11);
    pinMode(trigPin, OUTPUT);
    pinMode(echoPin, INPUT);
    pinMode(led, OUTPUT);
    myservo.write(pos);
}
```

```
void loop()
 //Serial.begin(9600);
 digitalWrite(trigPin, LOW);
 delayMicroseconds(2);
 digitalWrite(trigPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(trigPin, LOW);
 duration = pulseIn(echoPin, HIGH);
 distance = 0.034*(duration/2);
 //Serial.println(distance);
 if (distance < 50)
  digitalWrite(led,HIGH);
  myservo.write(pos+160);
  delay(1000);
 else
 {
  digitalWrite(led,LOW);
   myservo.write(pos);
 delay(300);
}
```

Screenshots:





Link: https://www.tinkercad.com/things/ketS4MCcYiG-ingenious-juttuligogo/editel?sharecode=0-TTTfsr4rDmH-sDUULCyqWbMJGz9lkH73CsBD7PyoU