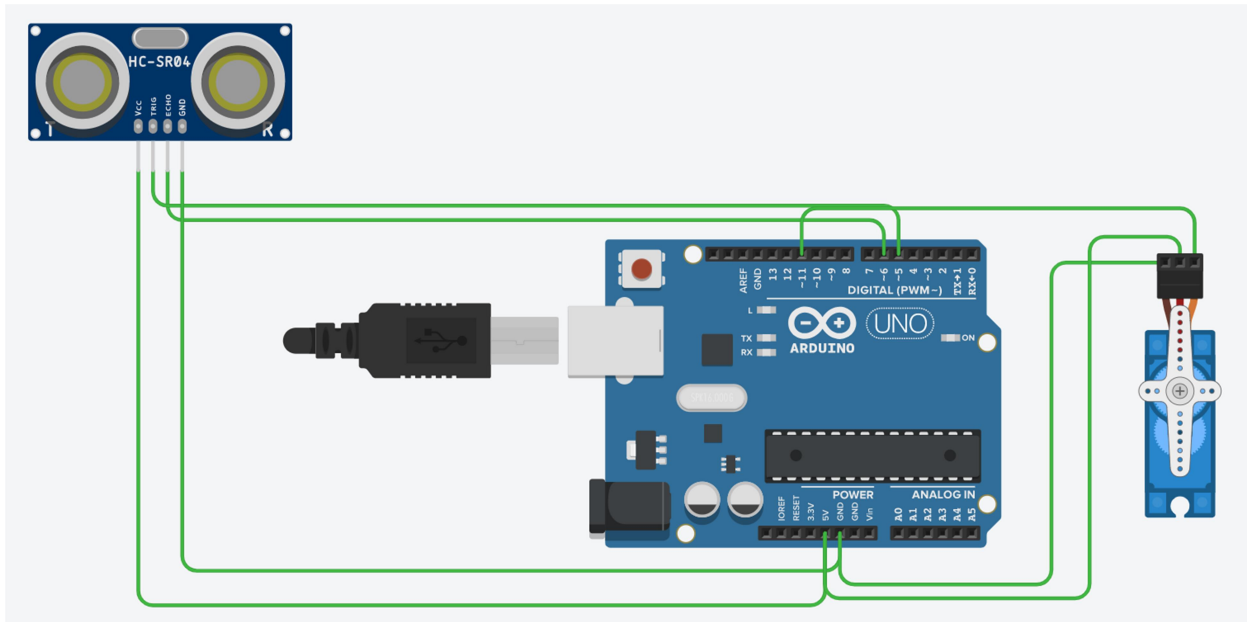## Circuit :

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);
}
```
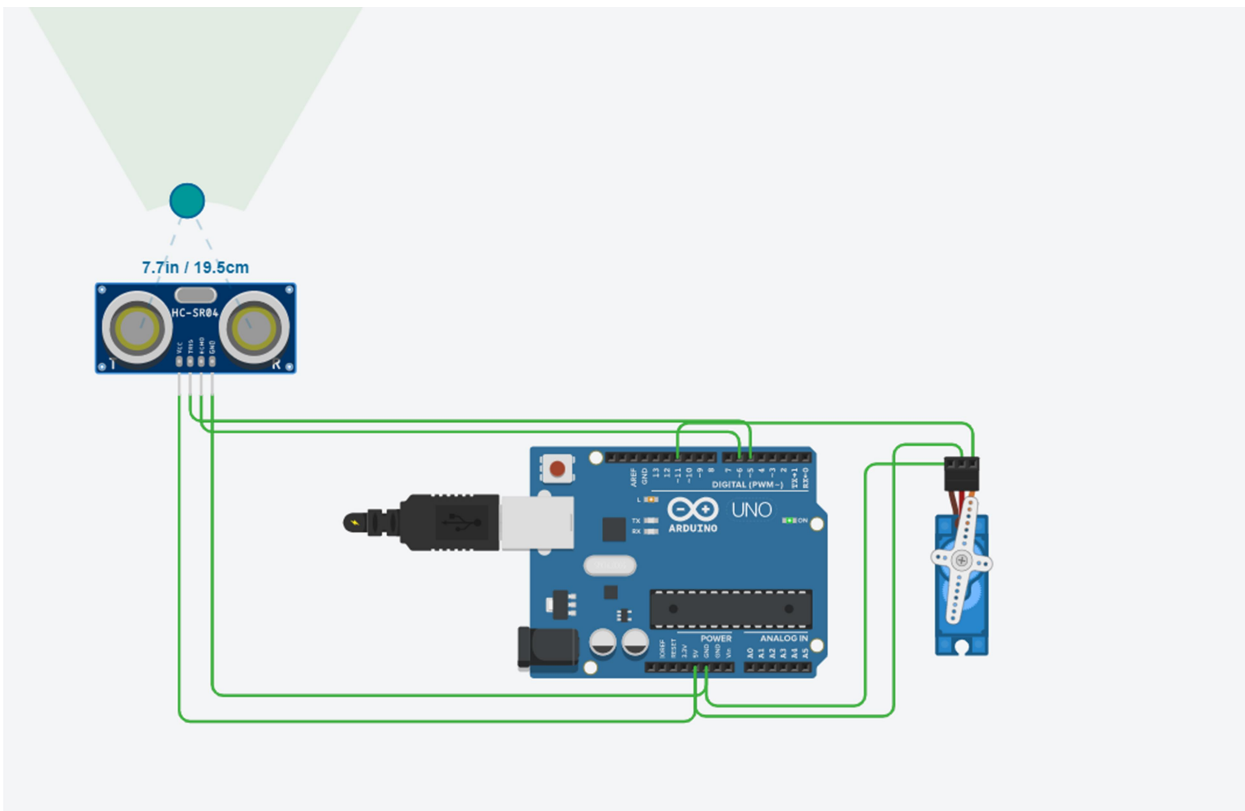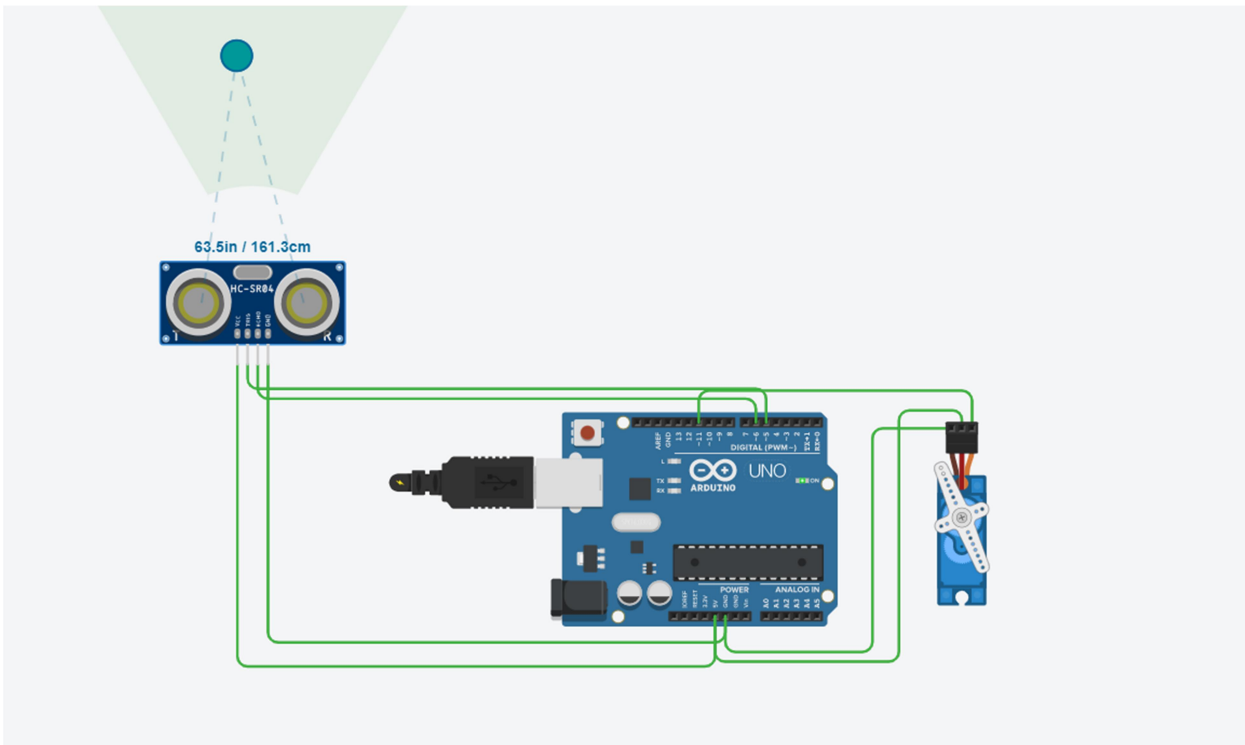
```cpp
void loop()
{
  //Serial.begin(9600);
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  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 :