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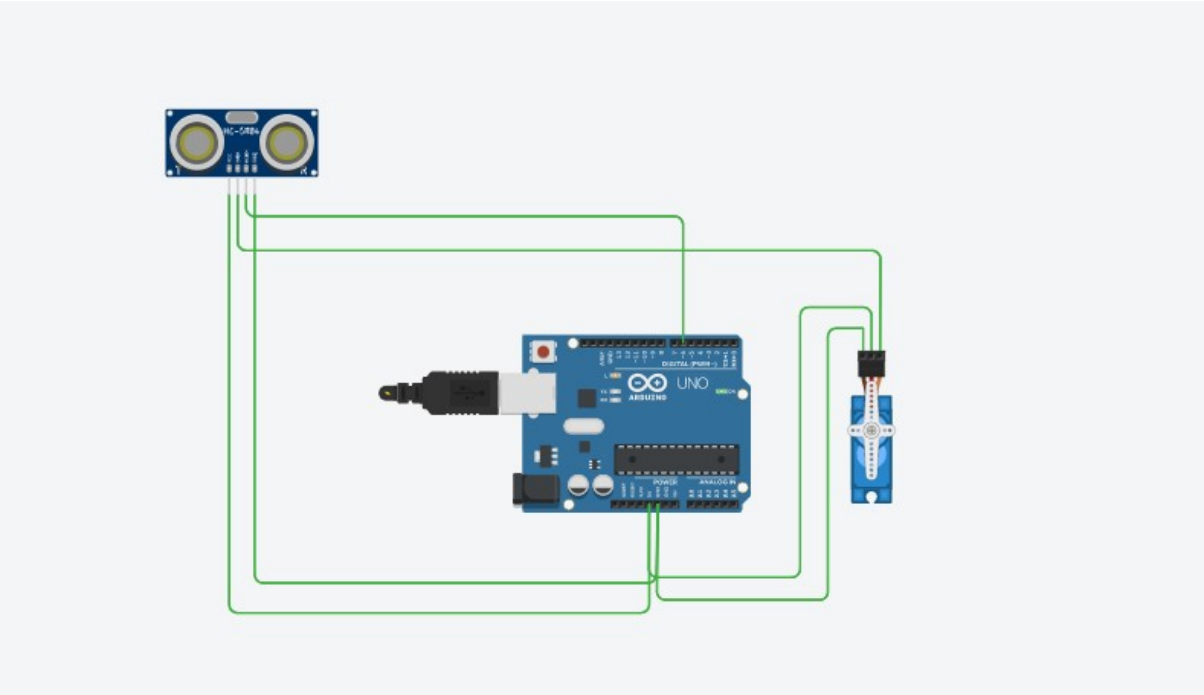
Assignment - 2

Circuit Diagram :

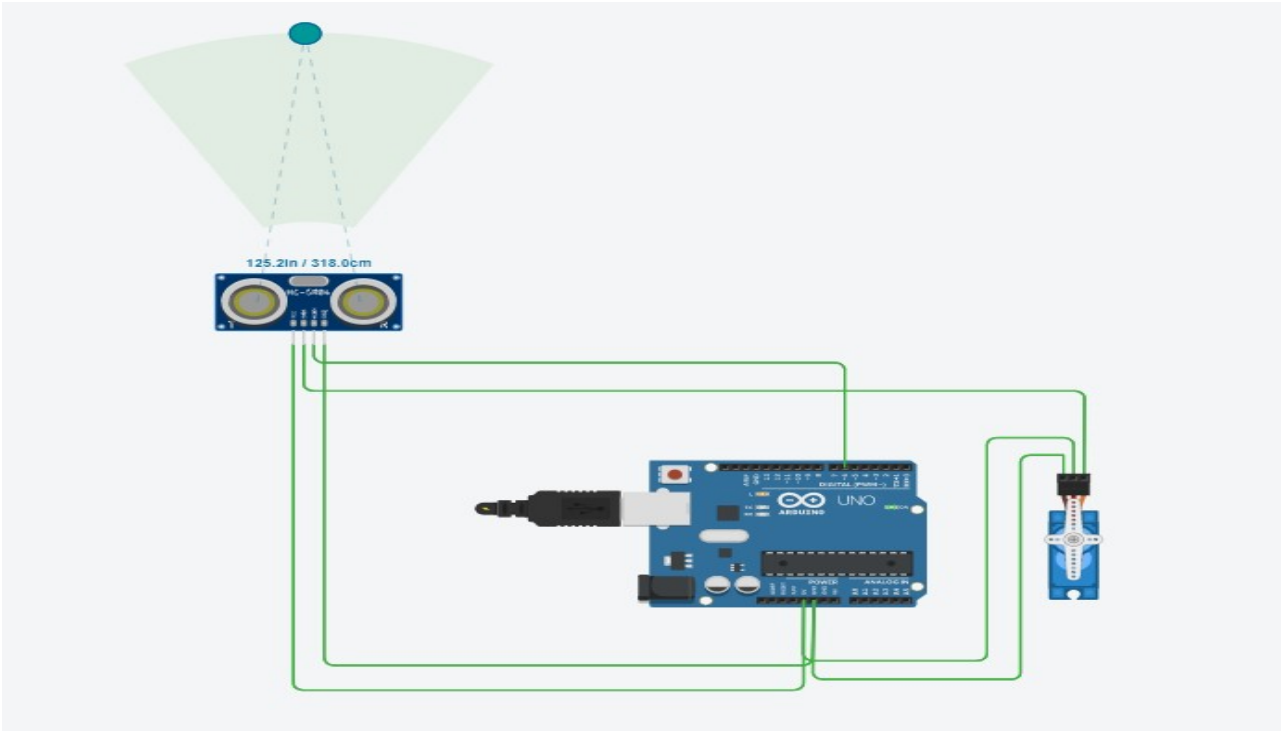


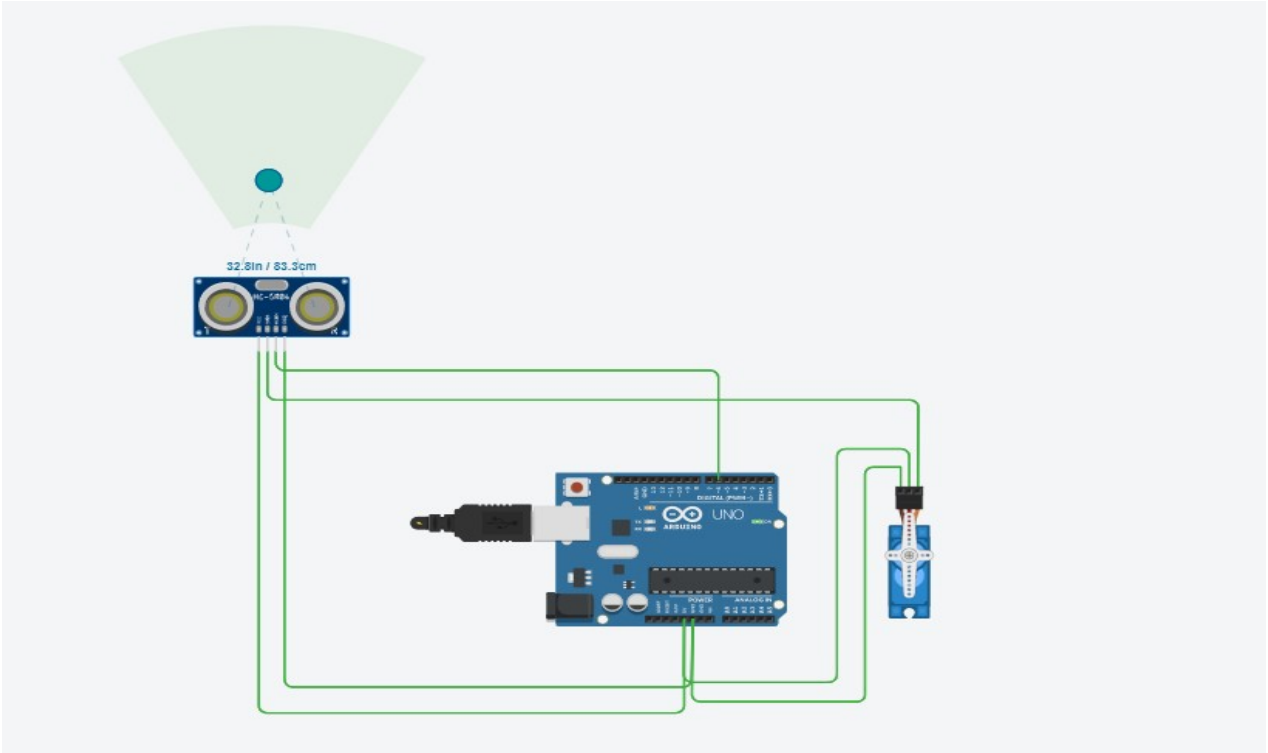
Code :

```
#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);
}
```

Screenshot of Working :


125.2in / 318.0cm
UNO


32.8in / 83.3cm
UNO