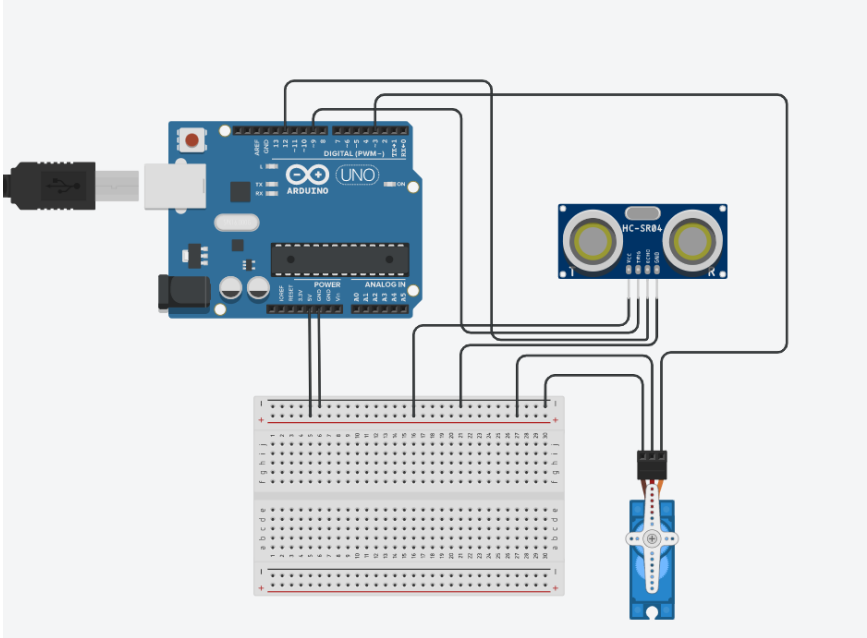
ASSIGNMENT-2

CIRCUIT DIAGRAM:



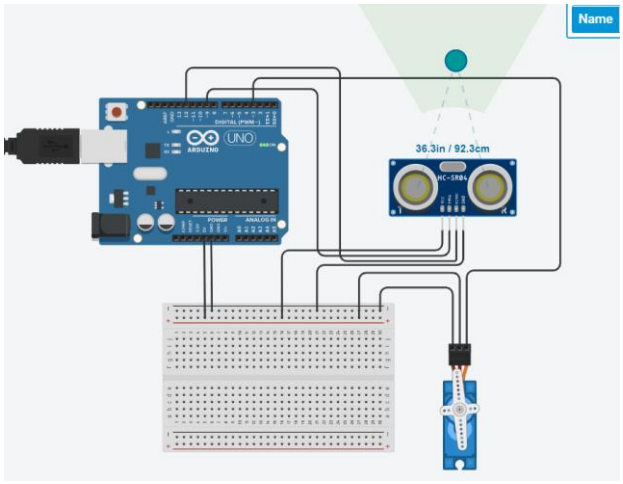
CODE:

```
#include<Servo.h>
Servo s;
void setup()
{
  pinMode(12, INPUT);
  pinMode(9, OUTPUT);
  s.attach(3);
  s.write(0);
  Serial.begin(9600);
}

void loop()
{
  digitalWrite(9, LOW);
  digitalWrite(9, HIGH);
  delayMicroseconds(10);
```

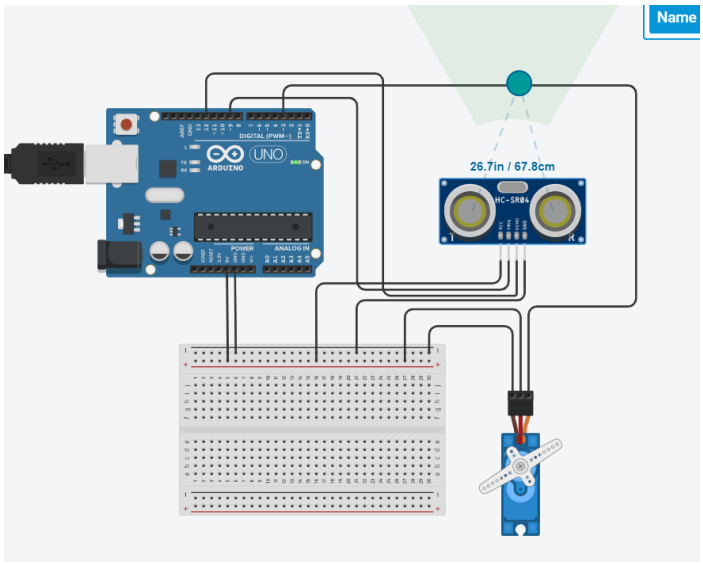
```
 digitalWrite(9,LOW);
 float dur = pulseIn(12, HIGH);
 float dis = (dur * 0.0343)/2;
 Serial.println(dis);
 s.write(0);
 if(dis <= 76)
 {
  for(int i=0;i<=180;i++)
  {
   s.write(i);
   delay(0);
  }

        delay(3000);
        for(int j=180;j>=0;j--)
        {
        s.write(j);
        delay(0);
        }
        delay(3000);
 }
 else
 {
  s.write(0);
 }
}
```

RESULTS:

1. When distance is above 76 cms:



2. when the distance is below 76 cms:



LINK:

https://www.tinkercad.com/things/juJHSFZngR0-brilliant-kasi-jofo/editel?sharecode=zi3yPt2KLjVEXgU-TS7uOhuj47CUqayK-wGQ_mNmIHs