

## Code:

```
#include<Servo.h>

#define echopin 2
#define triggerpin 3

long duration;
int distance;

Servo servol;

int pos=0;

void setup()
{
    pinMode(triggerpin, OUTPUT);
    pinMode(echopin , INPUT);
    Serial.begin(9600);
    servol.attach(3);
}

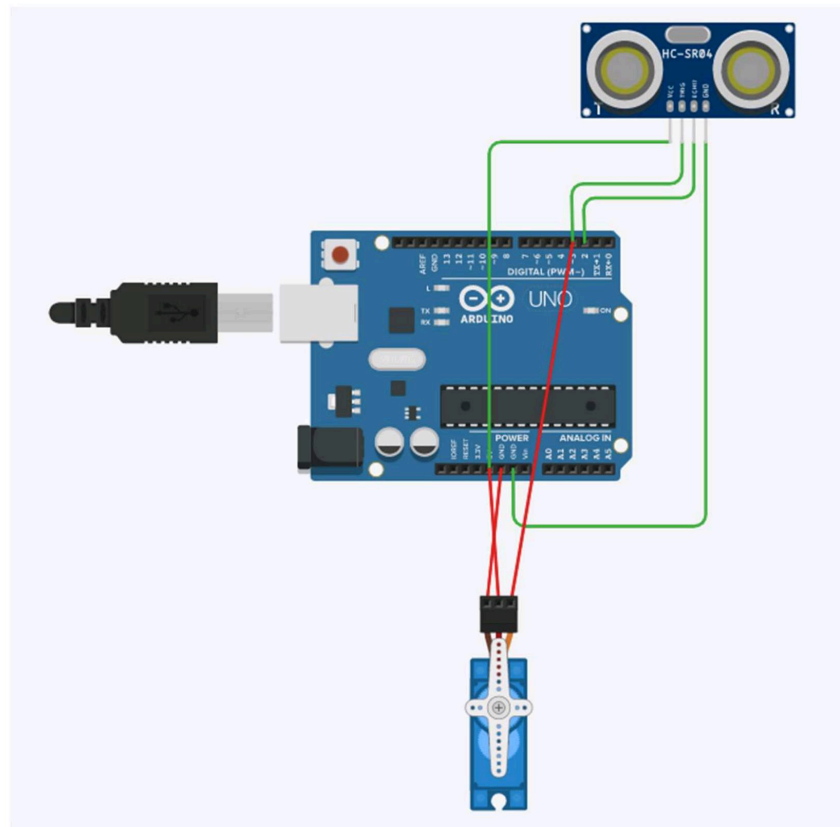
void loop()
{
    digitalWrite(triggerpin, LOW);
```

```

delayMicroseconds(2); // Wait for 1000 millisecond(s)
digitalWrite(triggerpin, HIGH);
delayMicroseconds(10);
digitalWrite(triggerpin, HIGH);
duration = pulseIn(echopin , HIGH);
distance =duration * 0.034/2;
Serial.print("\nDistance = ");
Serial.print(distance);
Serial.print(" cm");
if(distance<50)
{
    for(pos=0;pos<=180;pos++)
    {
        servol.write(pos);
        delay(15);
    }
    delay(1000);
    for(pos=180;pos>=0;pos--)
    {
        servol.write(pos);
        delay(15);
    }
    delay(1000);
}
}

```

Diagram:



Output:

