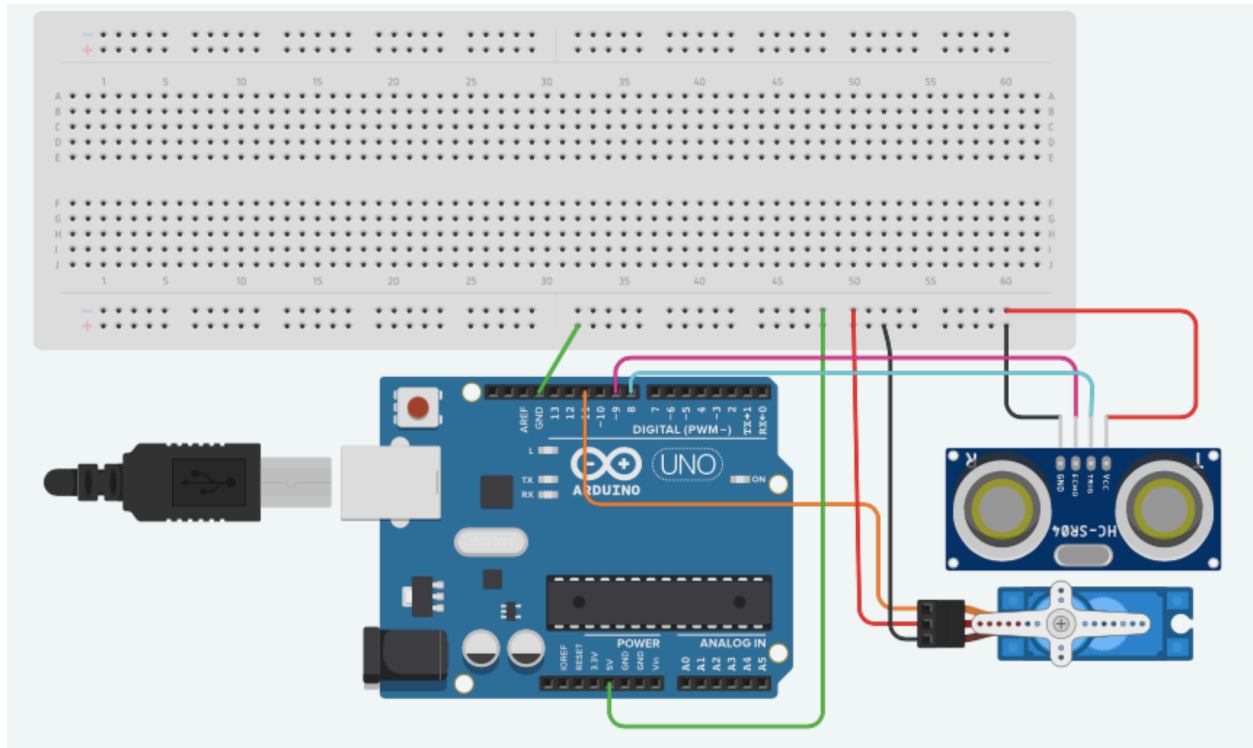


# Keep your distance....servo !!



CODE:

```
#include<Servo.h>
int trig=8;
int echo=9;
int dt=10;
Servo servo;

//int distance,duration;
void setup() {
    // put your setup code here, to run once:
    pinMode(trig,OUTPUT);
```

```
pinMode(echo,INPUT);
Serial.begin(9600);
servo.attach(11);
}
```

```
void loop() {
    // put your main code here, to run repeatedly:
```

```
    if (calc_dis()<10)
    {
        for (int i=0;i<=540;i++)
        {
            servo.write(i);
            delay(1);
        }
        delay(100);
        for (int i=540;i>=0;i--)
        {
            servo.write(i);
            delay(1);
        }
        delay(100);
    }
}
```

```
//This code is written to calculate the DISTANCE using
ULTRASONIC SENSOR
```

```
int calc_dis()
{
    int duration,distance;
```

```
digitalWrite(trig,HIGH);  
delay(dt);  
digitalWrite(trig,LOW);  
duration=pulseIn(echo,HIGH);  
distance = (duration/2) / 29.1;  
return distance;  
}
```