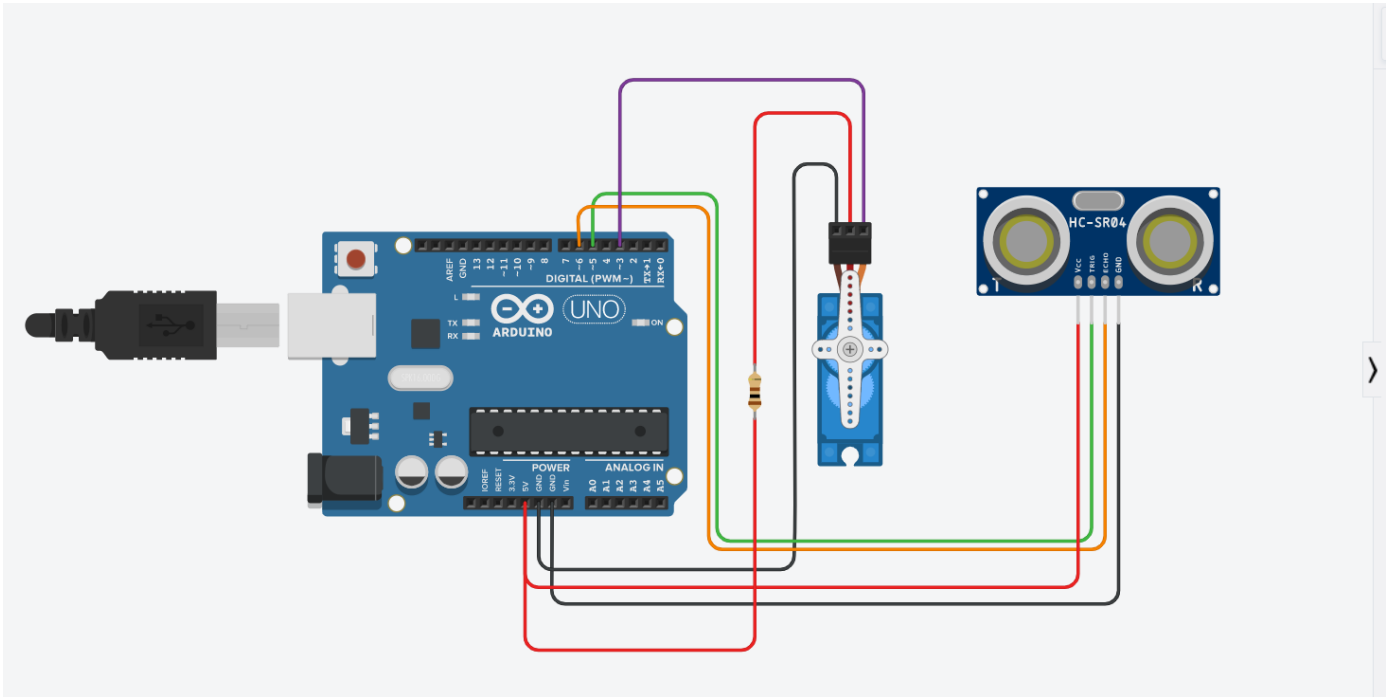


ASSIGNMENT-2

CODE:

```
#include<Servo.h>
Servo servo;
int trig=5;
int echo=6;
void setup()
{
  servo.attach(3);
  pinMode(trig, OUTPUT);
  pinMode(echo, INPUT);
  Serial.begin(9600);
  servo.write(0);
}
void loop()
{
  digitalWrite(trig,LOW);
  digitalWrite(trig,HIGH);
  delay(10); // Wait for 1000 millisecond(s)
  digitalWrite(trig,LOW);
  float dur=pulseIn(echo,HIGH);
  float dis=(dur*0.0343)/2;
  Serial.print("distance in cm;");
  Serial.println(dis);
  if(dis>=250){
    servo.write(180);
    Serial.println("door closed");
    Serial.print("distance ");
    Serial.println(dis);
    delay(500);
  }
  else{
    servo.write(0);
    Serial.println( "door open");
    Serial.print("distance");
    Serial.println(dis);
    delay(500);
  }
}
```

Design:



OUTPUT:

```
-----  
distance in cm;167.74  
door open  
distance167.74  
distance in cm;166.85  
door open  
distance166.85  
distance in cm;166.85  
door open  
distance166.85  
distance in cm;167.64  
door open  
distance167.64  
distance in cm;168.41  
door open  
distance168.41  
distance in cm;168.41  
door open  
distance168.41
```

~~distance 333.41~~

distance in cm;333.45

door closed

distance 333.45

distance in cm;333.41

door closed

distance 333.41

distance in cm;334.22

door closed

distance 334.22

distance in cm;333.41

, , ,