ASSIGNMENT -2

ARDUINO CODE:

```
#include <Servo.h>
Servo motor;
int signal = 3;
int trigger = 4;
int echo = 5;
void setup()
{
 pinMode(signal, OUTPUT);
 pinMode(trigger, OUTPUT);
 pinMode(echo, INPUT);
 motor.attach(signal);

 Serial.begin(9600);
}
void loop()
{
 motor.write(0);

 digitalWrite(trigger, LOW);
 digitalWrite(trigger, HIGH);
 delayMicroseconds(20);
 digitalWrite(trigger, LOW);

 float dur = pulseIn(echo, HIGH);

 float dis = (dur * 0.035)/2;

 Serial.print("Distance measured: ");
 Serial.println(dis);


 if(dis < 250){

 motor.write(90);
 Serial.println("Door opened.");


 delay(15 * 1000);

 motor.write(0);
```

```
 delay(2 * 1000);
 Serial.println("Door closed.");
 }
}
```

OUTPUT: