ASSIGNMENT-2

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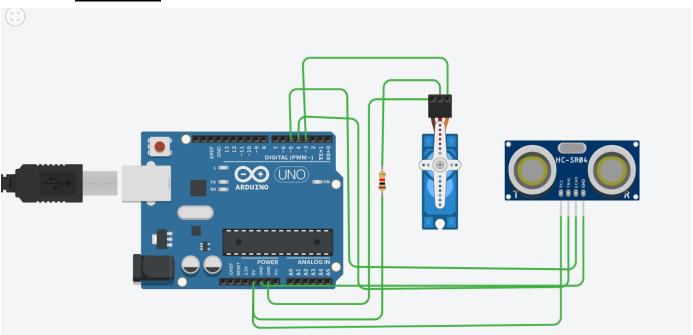
REG NO: 19BEC0513

CODE:

```
#include<Servo.h>
Servo s;
int t=4;
int e=5;
void setup()
{
 s.attach(3);
 pinMode(t, OUTPUT);
 pinMode(e, INPUT);
 Serial.begin(9600);
 s.write(0);
}
void loop()
{
 digitalWrite(t, LOW);
 digitalWrite(t, HIGH);
 delayMicroseconds(10);
 digitalWrite(t, LOW);
 float dur = pulseIn(e, HIGH);
```

```
float dis = (dur * 0.0343)/2;
 Serial.print("distance in cm: ");
 Serial.println(dis);
 if (dis <= 250)
        {
          Serial.println("door closed");
          Serial.print("Distance= ");
          Serial.println(dis);
          delay(100);
         }
 else{
  Serial.print("door open");
  Serial.print("Distance= ");
  Serial.println(dis);
  delay(100);
}
}
```

CIRCUIT:



OUTPUT:

