IOT ASSIGNMENT-2

M.SAI VARSHITH

CODE:

```
// C++ 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);
}
void loop()
{
 digitalWrite(t, LOW);
 digitalWrite(t, HIGH);
 delayMicroseconds(10);
 digitalWrite(t, LOW);
 float dur = pulseIn(e,HIGH);
```

```
float dis = (dur * 0.0343)/2; // convert m to cm
     Serial.print("distance in cm: ");
 Serial.println(dis);
if(dis <= 250)
Serial.println("Door closed ");
Serial.print(" Distance= ");
Serial.println (dis);
delay(500);
}
     else {
Serial.println("Door open ");
Serial.print (" Distance = ");
Serial.println(dis);
delay(100);
}
}
```



