

## INTERNET OF THINGS

### Assignment 2

Gontina tejaswi naidu

Tejaswi.19bes7001@vitap.ac.in

Develop an "Automatic garage door opening system". Use an Ultrasonic sensor to detect if there is a vehicle in front of the garage. if any vehicle is detected open the garage door (rotate the servo motor) for some time and close it.

Code:

```
#include<Servo.h>

Servo s;

void setup()
{
    pinMode(2, OUTPUT);
    pinMode(3,INPUT);
    s.attach(5);
    Serial.begin(9600);
}

void loop()
{
    digitalWrite(2, LOW);

    digitalWrite(2, HIGH);
    delayMicroseconds(10);
    digitalWrite(2,LOW);
    float dur=pulseIn(3,HIGH);
    float dis = (dur * 0.0343)/2;
    if(dis<65)
    {
        Serial.println("Garage open");
        for(int i=0;i<=180;i++)
        {
```

```

s.write(i);
delay(100);
}
delay(30000);
Serial.println("Garage close");
for(int j=180;j>=0;j--)
{
s.write(j);
delay(100);
}
}
}

```

