

# Assignment -1

## Home automation

Assignment Date	15 September 2022
Student Name	C. Chithra
Student Roll Number	510119205003
Maximum Marks	2 Marks

### Question-1:

Make a smart home with 2-3 Sensors, LEDs, Buzzer in a single code and connections. Submit it in a platform ?

### Solution:

```
int t=2;
int e=3;
void setup()
{
  pinMode(13,OUTPUT);
  pinMode(12,OUTPUT);
  pinMode(13,OUTPUT);
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  Serial.begin(9600);
}

void loop()
{
  {
    digitalWrite(13,HIGH);
    Serial.println("LED ON");
  }
  {tone(12,131);
  delay(1000);
  }
}
```

```

    double a = analogRead(A0);
    double c = (((a/1024)*5)-0.5)*100;
    Serial.print("celsius value:");
    Serial.println(c);
    delay(1000);

}
{
    digitalWrite(t,LOW);
    digitalWrite(t,HIGH);
    delay(10);
    digitalWrite(t,LOW);    float
    dur = pulseIn(e,HIGH);
    float dis = (dur*0.0343)/2;
    Serial.print("Distance is");
    Serial.println(dis);
}
}

```

