

### Assignment -1

Assignment Date	15 September 2022
Student Name	S. Janani
Student Roll Number	510119205005
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);
}
}

```

