

**Assignment -1**  
**C-Programming**

Assignment Date	19 September 2022
Student Name	S.K.saravanan
Student Roll Number	821219104019
Maximum Marks	2 Marks

**Question-1:**

**Make a smart home with 2-3 sensors,LED,buzzer in single code and connections.**

**Solution**

```
# define GREEN 2
# define ORANGE 3
# define RED 4
# define Buzzer 5
# define Sensor A0
void setup() {
  for (int i = 2; i < 6; i++)
    pinMode(i, OUTPUT);
  Serial.begin(9600);
}
void loop() {
  for (int i = 2; i < 6; i++)
    digitalWrite(i, LOW);
  status_Indicator();
}
void status_Indicator()
{
  int sensor_In = analogRead(A0);
  Serial.println(sensor_In);
  if ( sensor_In >=40 )
  { digitalWrite(RED, HIGH);
    digitalWrite(Buzzer,HIGH);
  }
  else if (sensor_In >=25 )
  {
    digitalWrite(ORANGE, HIGH);
  } else
  {
    digitalWrite(GREEN, HIGH);
  }
  delay(10);
}
```

