Assignment -1

C-Programming

Assignment Date	19 September 2022
Student Name	R.Sridevi
Student Roll Number	821219104020
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);
}
```