Assignment -1

Python Programming

Assignment Date	03 October 2022
Student Name	S.Dhanushavarthini
Student Roll Number	19035
Maximum Marks	2 Marks

Question-1:

Smart home automation

Solution

```
int temp = A0;
void setup() {
 Serial.begin(9600);
 pinMode(7,OUTPUT);
 pinMode(4,INPUT);
 pinMode(11,OUTPUT);
void loop() {
 int temp_adc_val;
 float temp_val;
 int pir=digitalRead(4);
 temp_adc_val = analogRead(temp);
 temp_val = (temp_adc_val * 4.88);
 temp_val = ((temp_val/10)-50);
 Serial.print(" Degree Celsius\n");
 Serial.print(temp_val);
 if(temp_val>=25 && pir==1)
  digitalWrite(11,HIGH);
  digitalWrite(7,HIGH);
  Serial.println("fanON");
 else
  digitalWrite(11,LOW);
  digitalWrite(7,LOW);
  Serial.println("fan OFF");
}
```

