ASSIGNMENT 1 HOME AUTOMATION

```cpp
// C++ code
void setup()
{
  Serial.begin(9600);
  pinMode(8,OUTPUT);
  pinMode(9,OUTPUT);
  pinMode(11,OUTPUT);
}
void loop()
{
 // Getting the data from the Temperature sensor
 double a = analogRead(A0);
 // Converting Analog value to Digital Value
 double Conv = (((a/1024)*5)-0.5)*100;
 Serial.println("The Temperature is :");
 Serial.println(Conv);
 Serial.println("*********");
 delay(1000);
 if(Conv>30)
 {
       digitalWrite(9,HIGH);
 }
 else
 {
       digitalWrite(8,HIGH);
 }
 // Getting the data from Gas Sensor
 int gas = analogRead(A3);
 Serial.println("Tha value is: ");
 Serial.println(gas);
 int thres = 50;
 if (gas > thres)
 {
       digitalWrite(11,HIGH);
 }
}
```