

Assignment -1

Assignment Date	26 October 2022
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Student Roll Number	501920
Maximum Marks	2 Marks

SMART HOME

```
int redLed = 12;
int greenLed = 11;
int buzzer = 10;
int smokeA0 = A5;
// Your threshold value
int sensorThres = 400;

void setup() {
  pinMode(redLed, OUTPUT);
  pinMode(greenLed, OUTPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(smokeA0, INPUT);
  Serial.begin(9600);
}

void loop() {
  int analogSensor = analogRead(smokeA0);

  Serial.print("Pin A0: ");
  Serial.println(analogSensor);

  // Checks if it has reached the threshold value
  if (analogSensor > sensorThres)
```

```

{
  digitalWrite(redLed, HIGH);
  digitalWrite(greenLed, LOW);
  tone(buzzer, 1000, 200);
}
else
{
  digitalWrite(redLed, LOW);
  digitalWrite(greenLed, HIGH);
  noTone(buzzer);
}
delay(100);
}

```

Output

