**Assignment -1**

| Assignment Date | 26 October 2022 |
|---|---|
| Student Name | Arul Diksha.A.K |
| Student Roll Number | 501910 |
| 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