**Assignment -1**

Python Programming

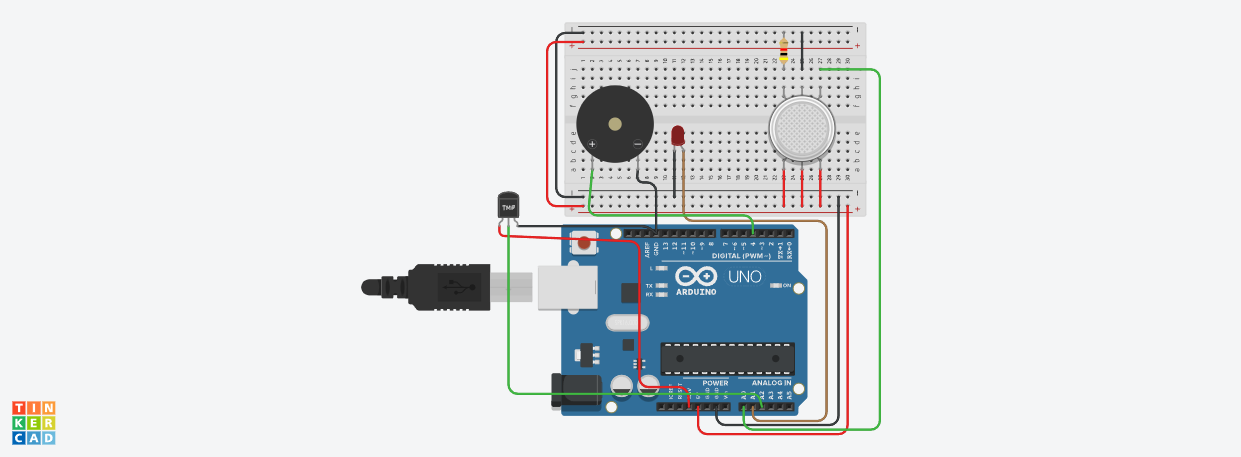
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| Student Name | M.Aravind |
| Student Roll Number | 720319106003 |

**Question-1:**

Home automation project using Aruduino, two sensor,buzzer ,light

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| **Solution:** |
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| **Program:**  int LED = A1;  const int gas = 0;  int MQ2pin = A0;  void setup() {  Serial.begin(9600);  pinMode(4,OUTPUT);  }  void loop() {  const int lm35\_pin = A2;  float sensorValue,MQ2pin;  sensorValue = analogRead(MQ2pin); // read analog input pin 0    int temp\_adc\_val;  float temp\_val;  temp\_adc\_val = analogRead(lm35\_pin);  temp\_val = (temp\_adc\_val \*4.88);  temp\_val = ((temp\_val/10)-50);    if(sensorValue >= 470 && temp\_val>=32){  digitalWrite(LED,HIGH);  Serial.print(sensorValue);  Serial.println(" |SMOKE DETECTED AND TEMP IS HIGH");  digitalWrite(4,HIGH);    Serial.print("Temperature = ");  Serial.print(temp\_val);    }  else{  digitalWrite(LED,LOW);  Serial.println("Sensor Value: ");  Serial.println(sensorValue);  Serial.print("Temperature = ");  Serial.print(temp\_val);  digitalWrite(4,LOW);  }  delay(1000);  }  float getsensorValue(int pin){  return (analogRead(pin));  } |  |

**Circuit Diagram:**



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