ASSIGNMENT – 1

<u>CODE:</u>

```
float a;

float vout;

float vout1;

int LED = 13;

int gasSensor;

int piezo = 2;

void setup()
{
  pinMode(A0, INPUT);
  pinMode(A1, INPUT);
  pinMode(LED, OUTPUT);
  pinMode(piezo, OUTPUT);
  Serial.begin(9600);
}

void loop()
{
```

```
vout = analogRead(A1);

vout1 = (vout/1023)*5000;

a = (vout1-500)/10;

gasSensor = analogRead(A0);

if (a>=80)

{

  digitalWrite(LED,HIGH);

}

else

{

  digitalWrite(LED,LOW);

}

if (gasSensor>=100)

{

  digitalWrite(piezo,HIGH);

}

else

{

  digitalWrite(piezo,LOW);

}

Serial.print("in DegreeC = ");

Serial.print(" ");

Serial.print(a);

Serial.print("\t");
```

```
Serial.print("GasSensor = ");

Serial.print(" ");

Serial.print(gasSensor);

Serial.println();

delay(1000);

}
```