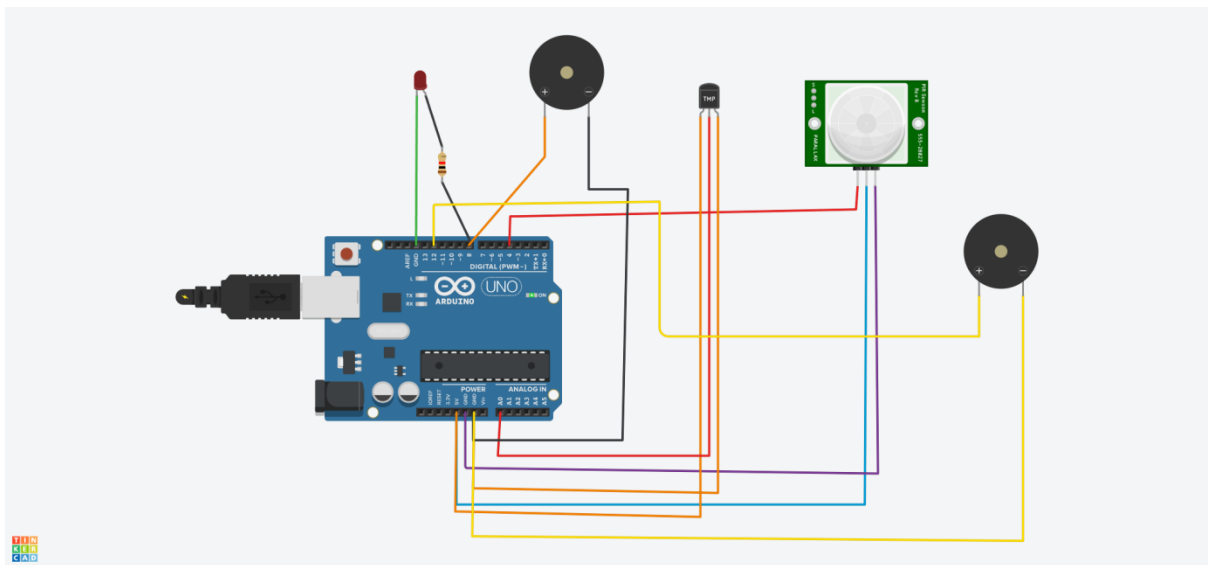


ASSIGNMENT

Reg.no	731219106301
Team ID	PNT2022TMID44431
Project Name	Gas leakage monitoring and alarting system

Assignment-1: Make a Smart Home in Tinkercad, using sensors, Led Buzzer in single code and circuit.



Coding:

```
//Home automation
//buzzer
void setup()
{
  pinMode(12, OUTPUT); //for pir sensor o/p buzzer
  pinMode(8, OUTPUT);  //for temp sensor o/p buzzer
```

```
pinMode(4, INPUT); //feeding i/p to arduino from pir sensor
Serial.begin(9600);

pinMode(13, OUTPUT);
}

void loop()
{
  //pir sensor
  int p=digitalRead(4);
  delay(20);
  if(p)
  {
    tone(12,800); //if motion detected the buzzer will rung
    delay(500);
    noTone(12);
    delay(100);
  }

  //temp sensor
  double t=analogRead(A0);
  double e=((t/1024)*5)-0.5)*100;
  Serial.println(e);
  delay(200);
  if(e>25)
  {
    tone(8,9000); //if temperature greater than 50 deg the buzzer will rung
    delay(500);
    noTone(8);
  }
}
```

```
delay(100);
```

```
}
```

```
}
```

Outputs:

Led is on:

