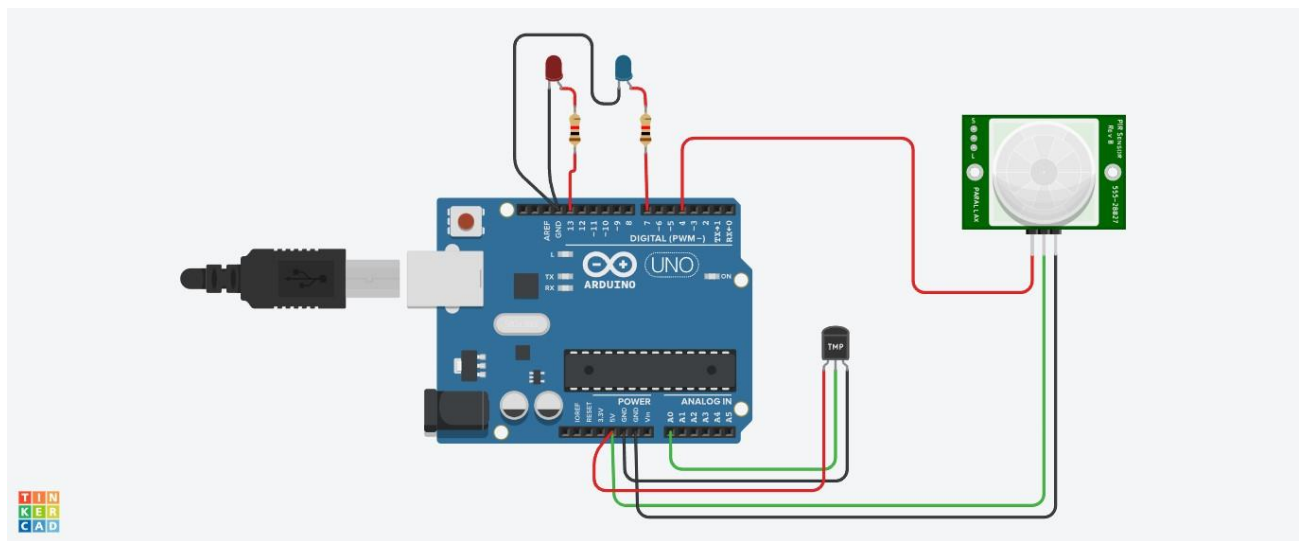


Assignment-I

Question:

Build a small application using PIR sensor, tmp36(temperature sensor) and a Piezo allowance, when temperature increases more than 60 centigrades, wanted to alarm from piezo and whenever a motion near PIR sensor, need another alarm with two different frequencies.



Code:

```
void setup()
{
    Serial.begin(9600);
    pinMode(4,INPUT);
    pinMode(8,OUTPUT);
    pinMode(13,OUTPUT); }

void loop()
{
```

```
int p=digitalRead(4);
Serial.println(p); if(p)
{
    digitalWrite(13,1);
    Serial.println("motion detected");
}
delay(1000); double
a=analogRead(A0); double
t=(((a/1024)*5)-0.5)*100;

Serial.println(t);
if(t>60)
{
    digitalWrite(8,1);
    Serial.println("temperature greater than 60 ");
delay(1000);
}
}
```