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Date: 13.09.2022
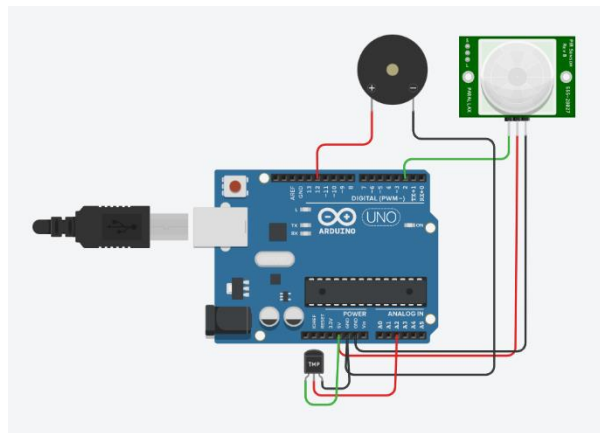
ASSIGNMENT – 1

QUESTION:

Please create circuit Piezo alarm, PIR sensor, temperature sensor with below functionalities:

1. Alarm should sound in one manner if temp is above 60 C
2. Alarm should sound with another frequency if motion is detected in PIR sensor.

SOLUTION:

CIRCUIT CONNECTION:

PROGRAM:

```
void setup(){

 Serial.begin(9600);

 pinMode(2,INPUT);

}

void loop(){

 int motion=digitalRead(2);

 double data=analogRead(A2);

 double n=data/1024;
```
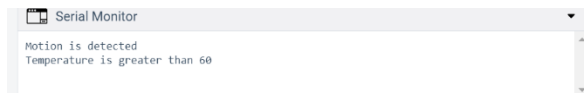
```
    double volt=n*5;

    double off=volt-0.5;

    double temp=off*100;


  if(temp>60){

   Serial.println("Temperature is greater than 60");

   tone(12,200);

   delay(2000);

  }


  if(motion == 1){

   Serial.println("Motion is detected");

   tone(12,100);

   delay(2000);

        }

}
```

OUTPUT:

TINKERCAD LINK:

https://www.tinkercad.com/things/1s5Y1OTHxlx?sharecode=2nvJ2G2LHjHkkaTBmZIiHAmZRXm5 RKIyO8ae9Ise1fo