Assignment

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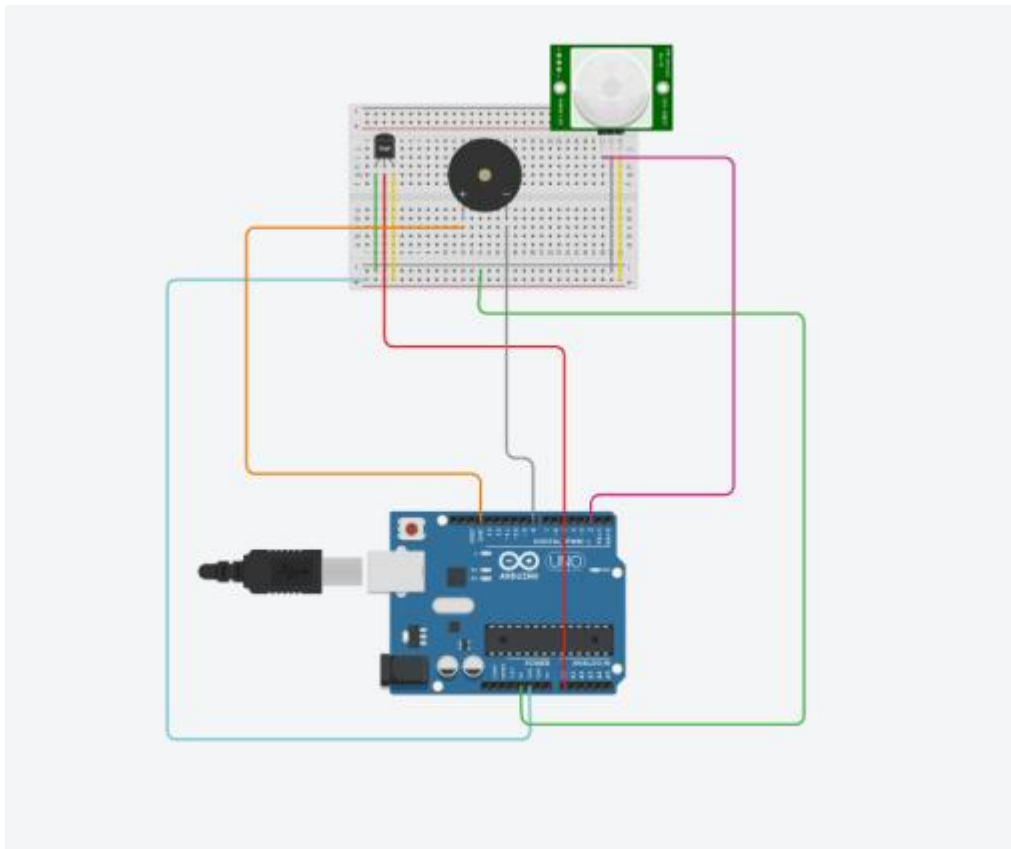
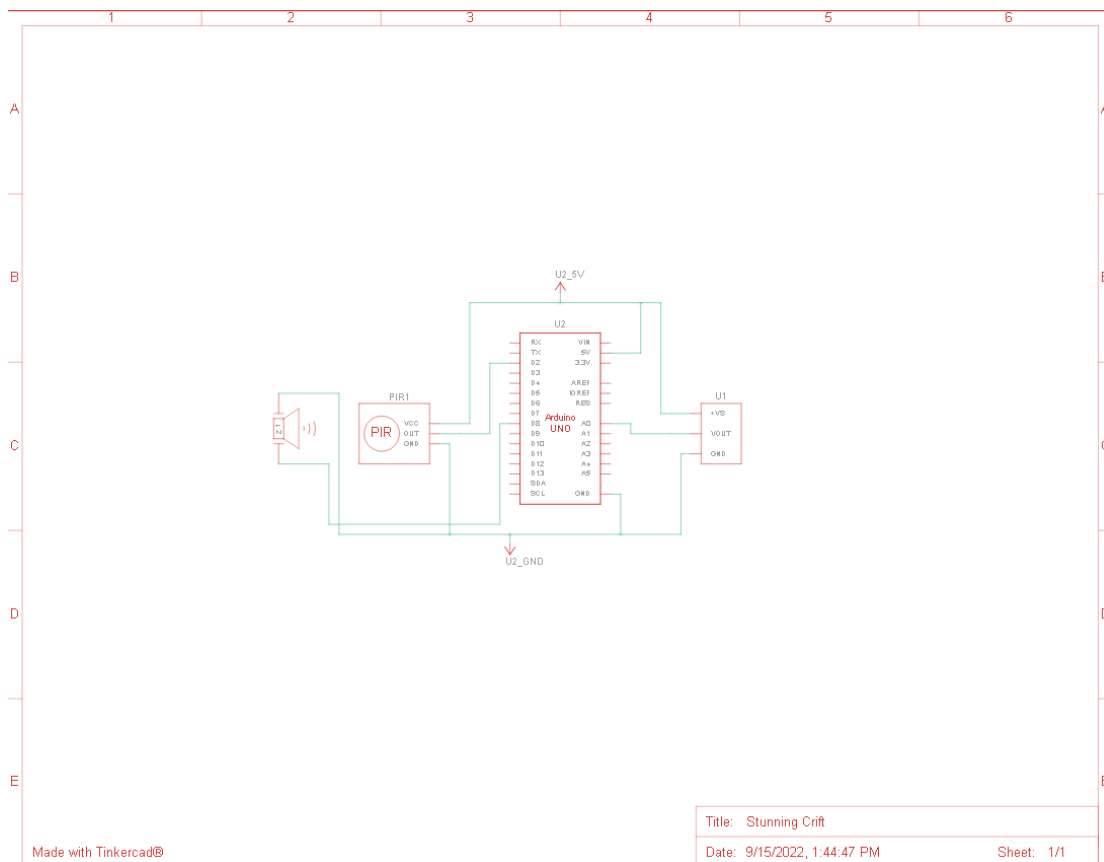University Register No : 714019106035

Team ID ; PNT2022TMID53688

Question :

1.Design a circuit with piezo alarm, PIR sensor, temperature sensor with below functionalities:
Alarm should sound in one manner if temp is above 60 C.

Alarm should sound with familiar if motion is detected in PIR sensor.

Title:	Stunning Crift	
Date:	9/15/2022, 1:44:47 PM	Sheet: 1/1

Code :

```
int temppin=A0;

float temp=0;

int piezoPin= 8;

float PIR=2;

void setup() {

  Serial.begin(9600);

  pinMode(temppin,INPUT);

  pinMode(PIR,INPUT);

  pinMode(piezoPin,OUTPUT);

}
```

```
void loop() {
 if(digitalRead(PIR)==HIGH){
   digitalWrite(piezoPin,HIGH);
   tone(piezoPin,1000);
   Serial.println("Movement Detected");
 }
 else
 {
  if(digitalRead(PIR)==LOW){
  digitalWrite(piezoPin,LOW);
 noTone(piezoPin);
   Serial.println("No Movement Detected");
  }
 }
 double data=analogRead(temppin);
 double n=data/1024;
 double temp=((n*5)-0.5)*100;
 Serial.print("Temperature: ");
 Serial.println(temp);
 if (temp >60) {
 digitalWrite(piezoPin,HIGH);
   tone(piezoPin,500);
   Serial.println(" Temperature High");
}
}
```