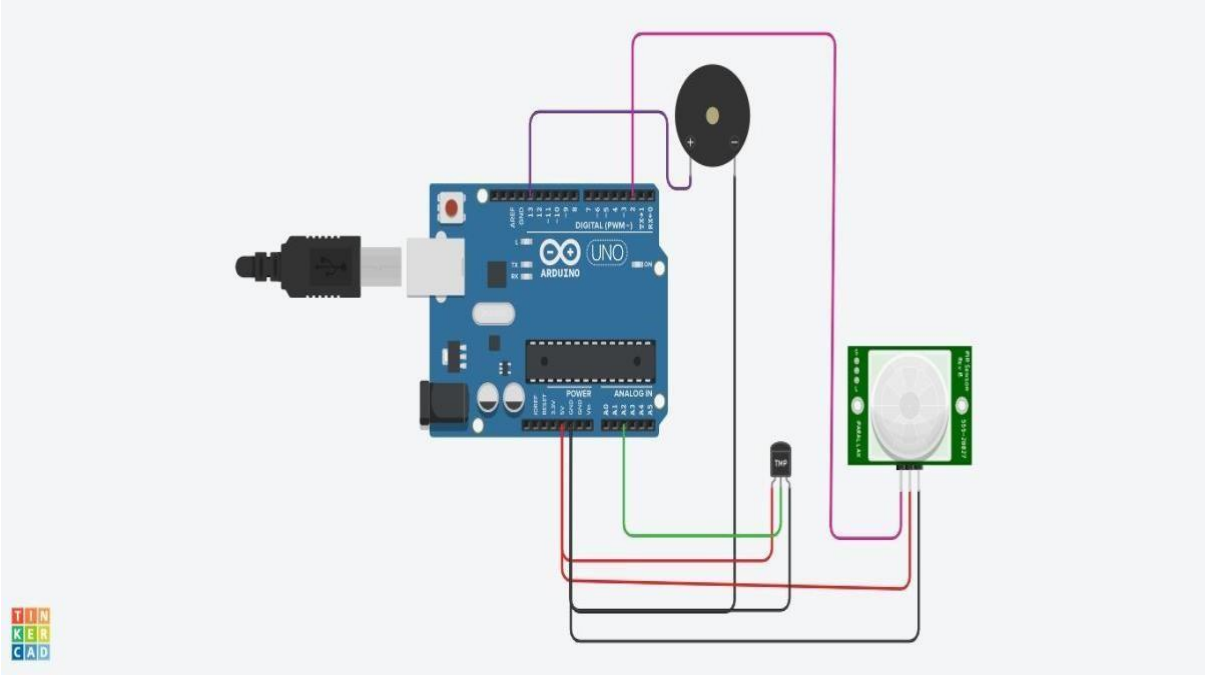
ASSIGNMENT 1

Create a circuit with piezo alarm,PIR sensor,tmp 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



CIRCUIT

```
// C++ code
//
void setup()
{
  Serial.begin(9600);
  pinMode(2,INPUT);
  pinMode(13,OUTPUT);
}
void loop()
{
  int motion=digitalRead(2);
  Serial.print("Position is");
  Serial.println(motion);
  if(motion==1){
    tone(13,100);
    delay(500);
  }
  else{
    noTone(13);
  }
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  int temp=off*100;
  Serial.print("Temperature is:");
  Serial.println(temp);
  if(temp>=60){
    tone(13,400);
```

```
    delay(500);
  }
  else{
    noTone(13);
  }
}
```

OUTPUT: