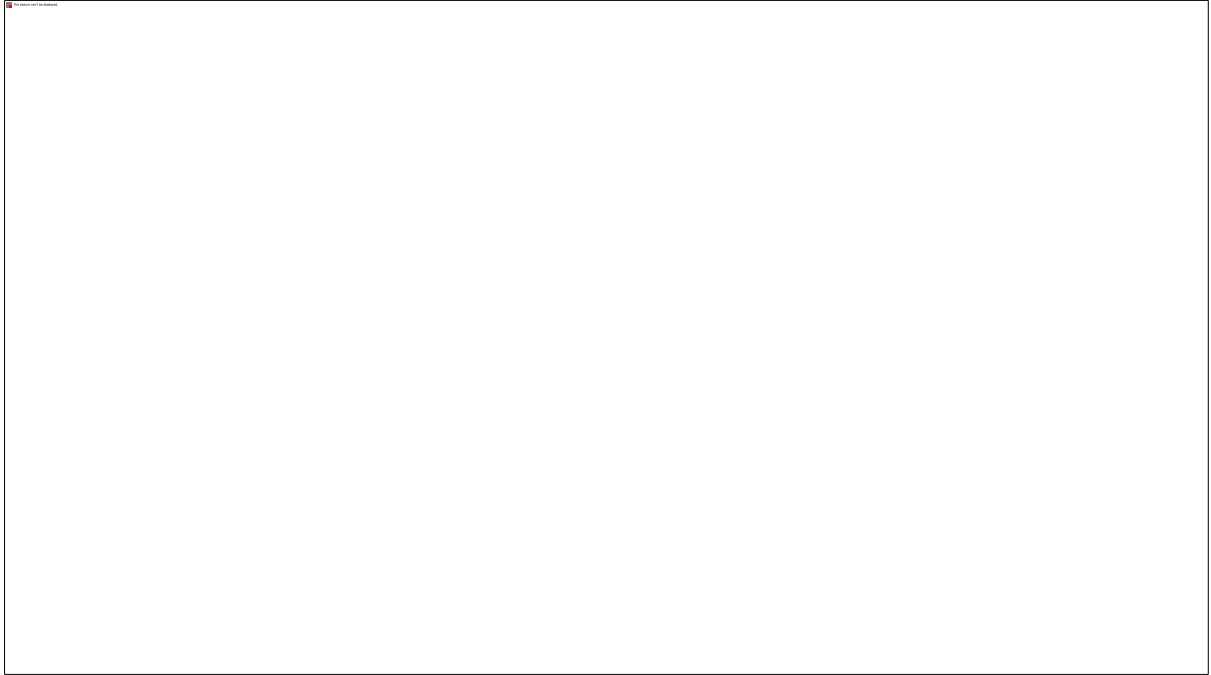


ASSIGNMENT 1

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:

