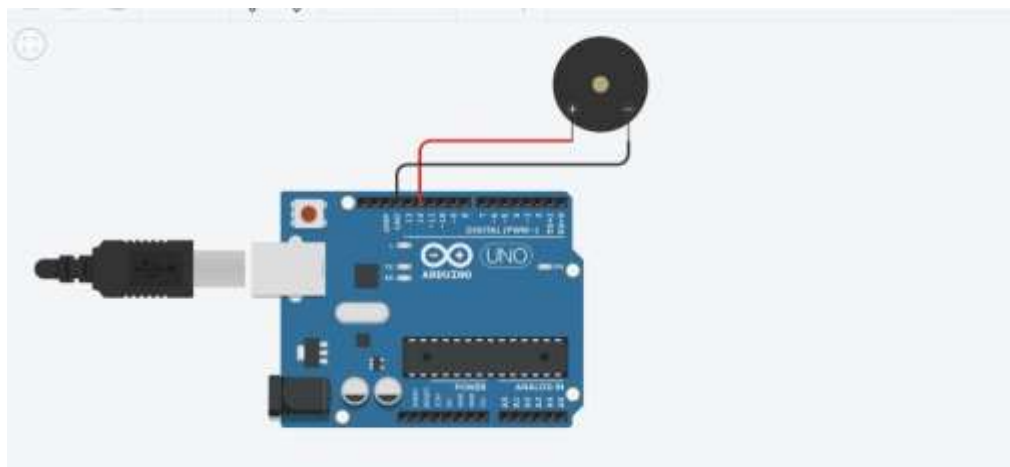
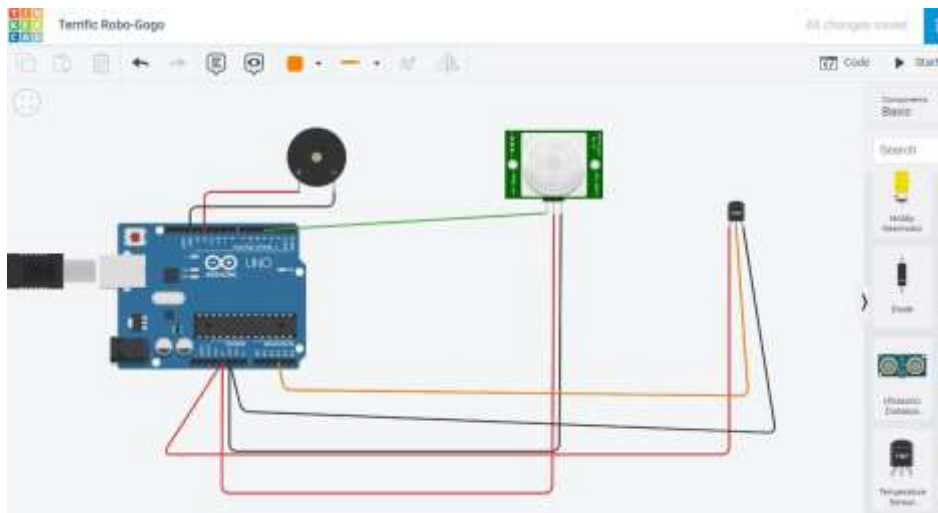
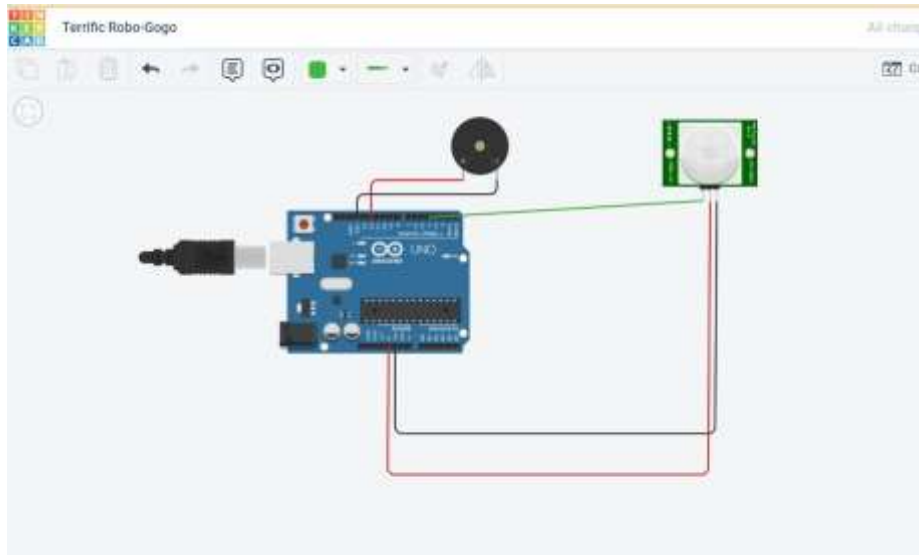


Assignment -1

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

Included following sensor: Arduino, PIR sensor, TMP sensor, piezo alarm.





CODE:

```
float temp;
```

```
void setup()
```

```
{
```

```
pinMode(4,INPUT);
```

```
pinMode(12,OUTPUT);
```

```
Serial.begin(9600);
```

```
}
```

```
void loop()
```

```
{
```

```
  if(digitalRead(4)==HIGH)
```

```
  {
```

```
    tone(12,523,1000);
```

```
  } else {
```

```
    noTone(12);
```

```
  }
```

```
  temp=analogRead(A3);
```

```
  Serial.println("temp:");
```

```
  Serial.println(temp);
```

```
  temp=temp*0.48828125;
```

```
  Serial.println(temp);
```

```
  if(temp>=110.84){
```

```
    tone(12,100,2000);
```

```
    Serial.println("Above 60 c temperture");
```

```
  }
```

```
  else{
```

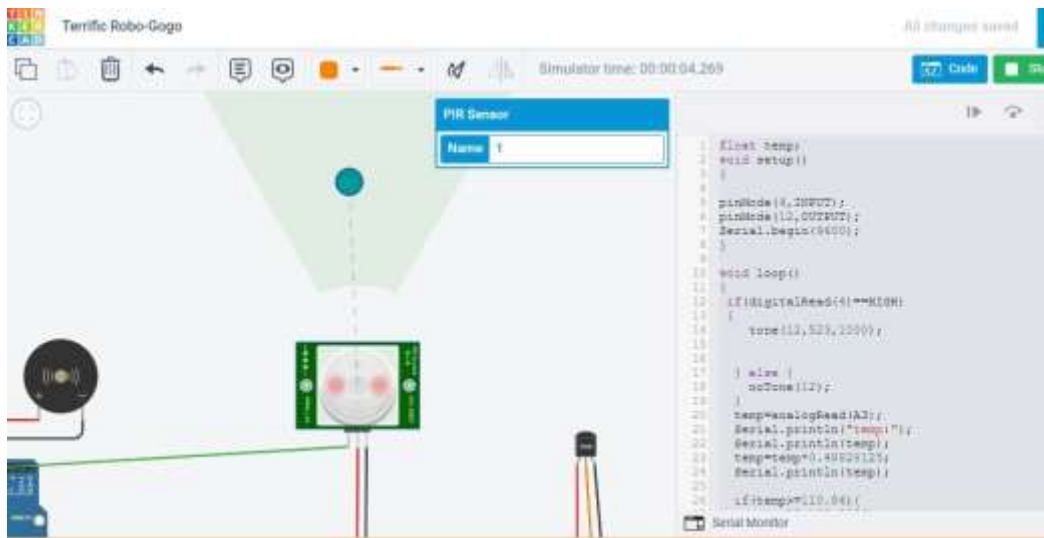
```
    noTone(12);
```

```
  }
```

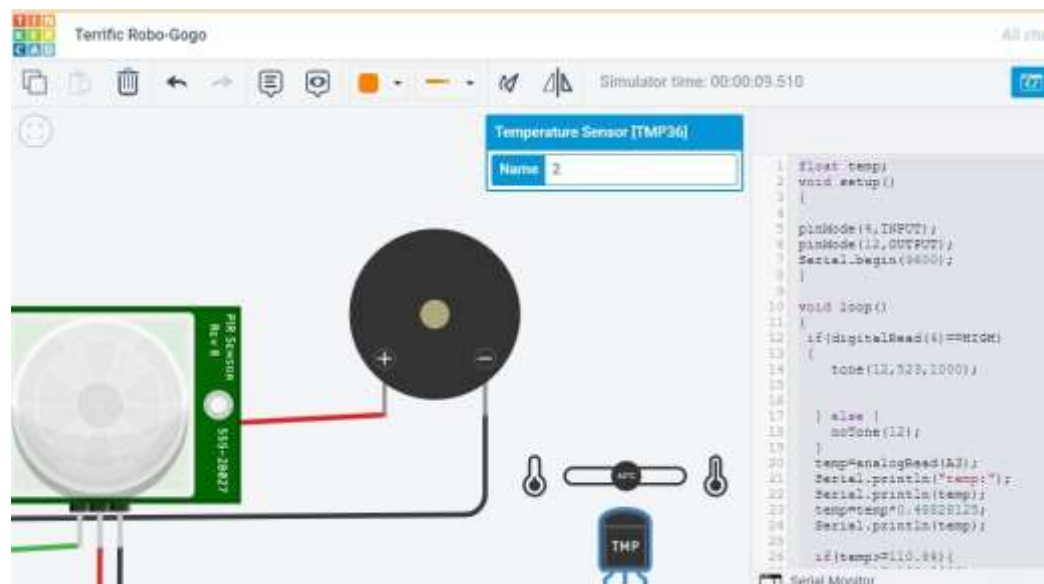
```
}
```

Output:

PIR Sensor alarm



Low Temperature:



High Temperature:

