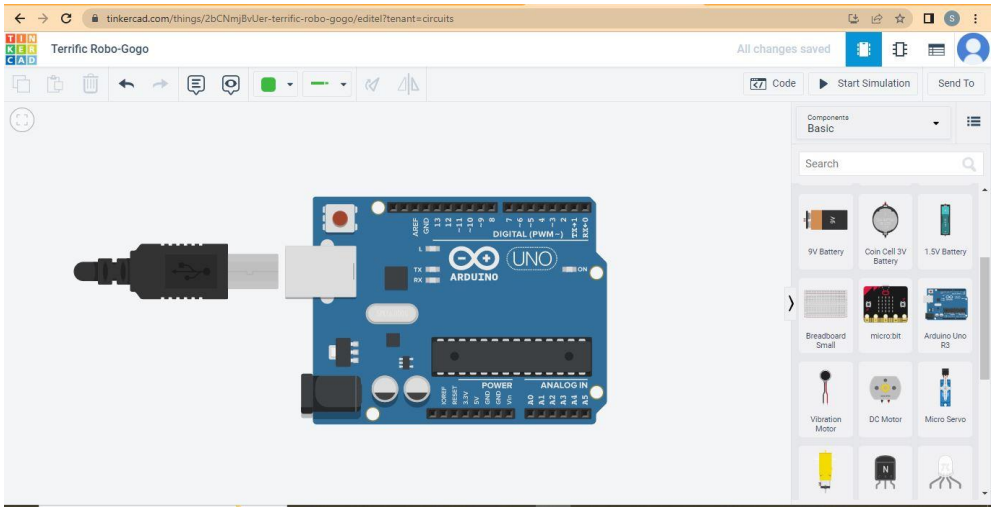
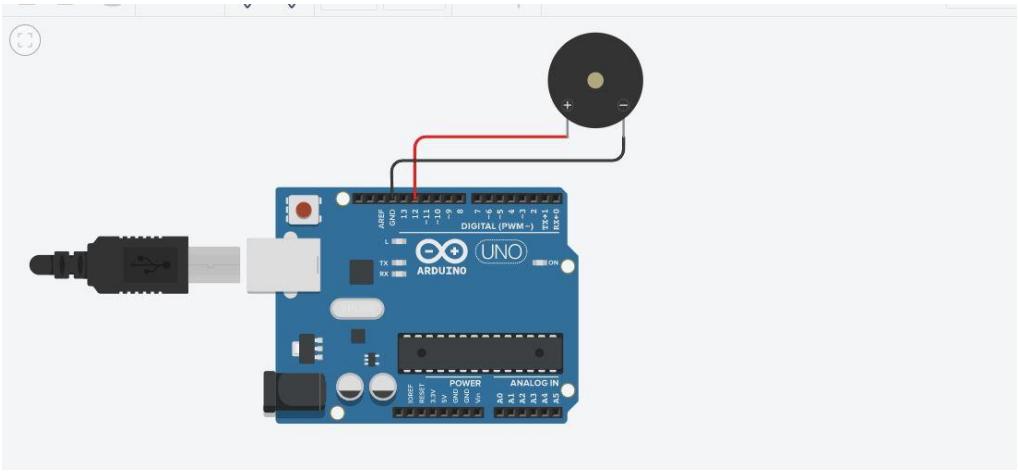
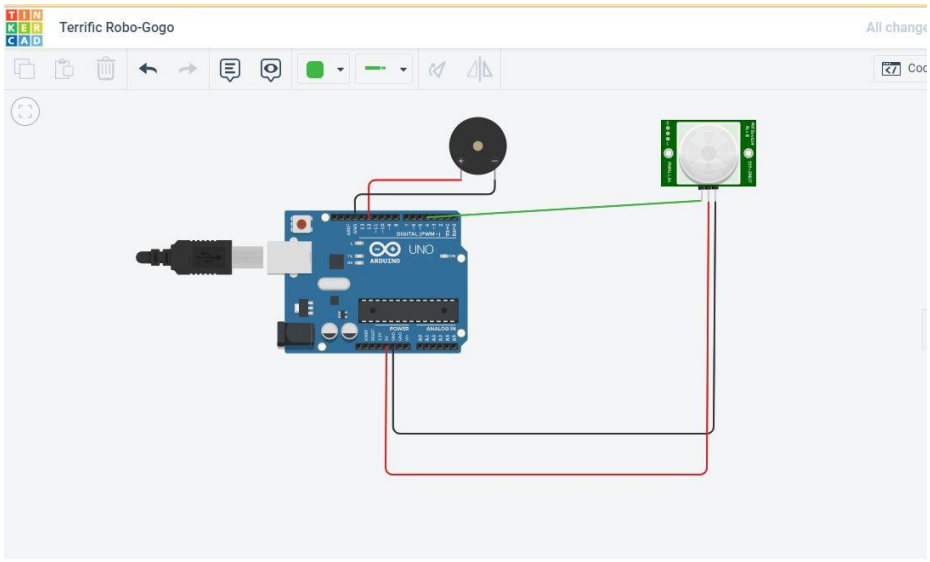
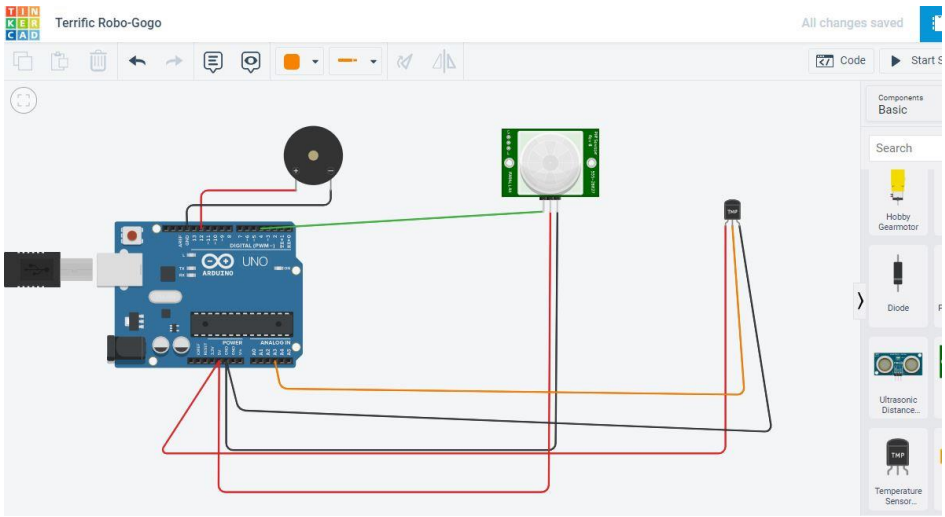
# Assignment -1

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.**





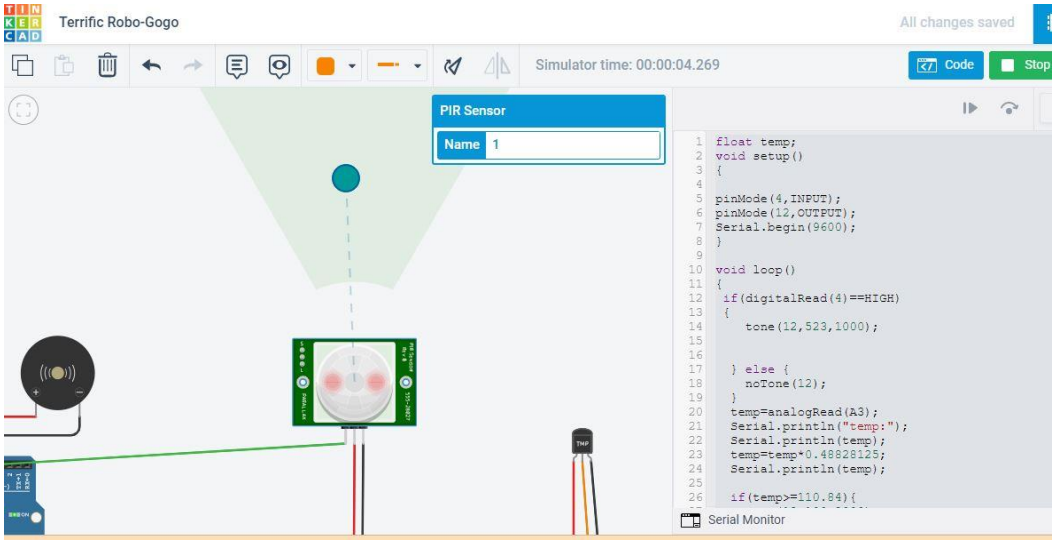

**CODE:**

```
float temp;

void setup()

{


pinMode(4,INPUT);

pinMode(12,OUTPUT);

Serial.begin(9600);
```

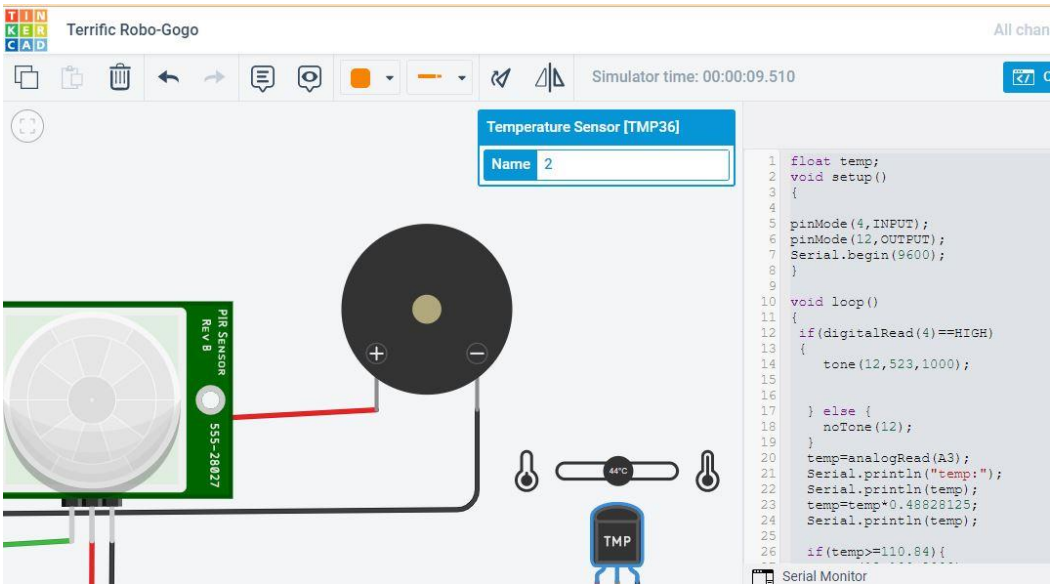
```
}

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 6o c temperture");
  }
  else{
  noTone(12);
  }
}
```

## Output:

## PIR Sensor alarm




## Low Temperature:



## High Temperature: