Assignment-1

Code

```
**ssignment1-Notpad

**Pie Edit Format View Help

**C+- code

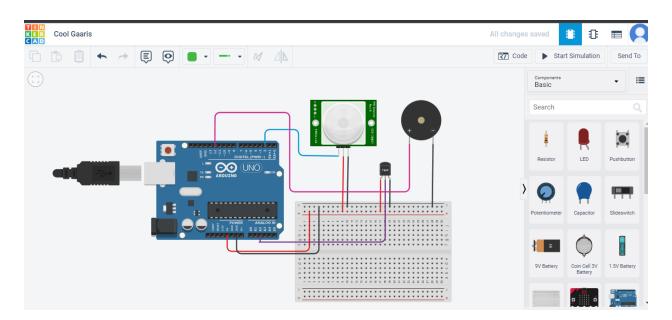
**void setup()

**Serial.psicin(9690)

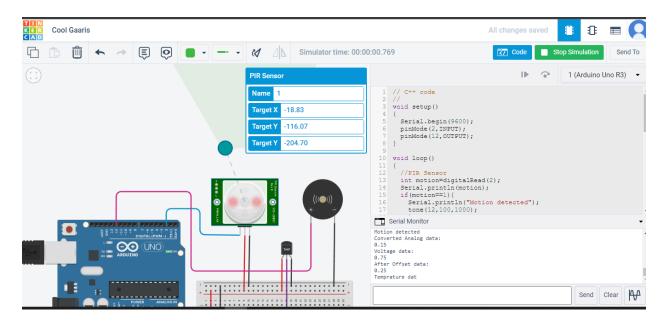
**pin(0dc(2_NPUT);

**pin
```

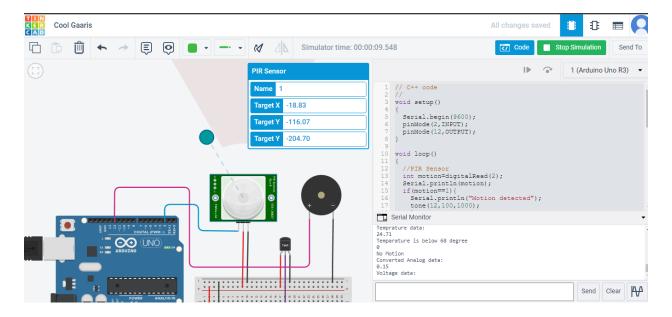
Connections



1.Using PIR Sensor

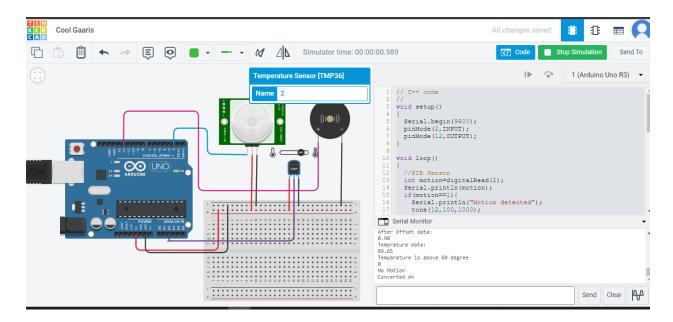


Motion Detected

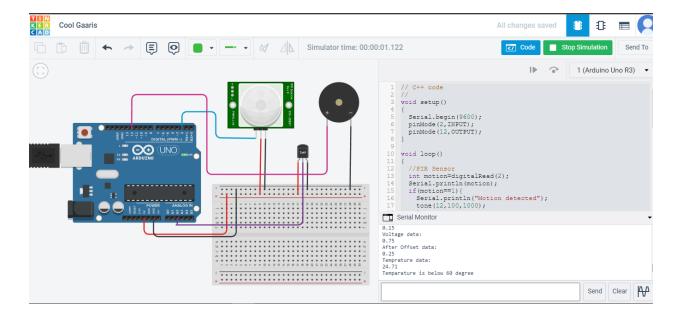


No Motion

2. Using Temprature Sensor



Temparature is above 60 degree



Temprature is below 60 degree

```
// C++ code
void setup()
 Serial.begin(9600);
 pinMode(2,INPUT);
 pinMode(12,OUTPUT);
void loop()
 //PIR Sensor
 int motion=digitalRead(2);
 Serial.println(motion);
 if(motion==1){
  Serial.println("Motion detected");
  tone(12,100,1000);
  }
 else
 {
  Serial.println("No Motion ");
 //Temaparature Sensor
 double data=analogRead(A2);
 double n=data/1024;
 Serial.println("Converted Analog data: ");
 Serial.println(n);
 double volt=n*5;
 Serial.println("Voltage data: ");
 Serial.println(volt);
 double off=volt-0.5;
 Serial.println("After Offset data: ");
 Serial.println(off);
 double temparature=off*100;
 Serial.println("Temprature data: ");
 Serial.println(temparature);
 if(temparature>=60)
  Serial.println("Temparature is above 60 degree ");
  tone(12,500,2000);
 }
 else
 {
   Serial.println("Temparature is below 60 degree ");
 }
}
```

Link

 $https://www.tinkercad.com/things/e430 HSG fwRv-cool-gaar is/editel?sharecode=HU_Xxxg-7ljzej1 AKdujPWp6 nu46k5Tsy69 ZhTndDB8$