IOT ASSIGNMENT-1
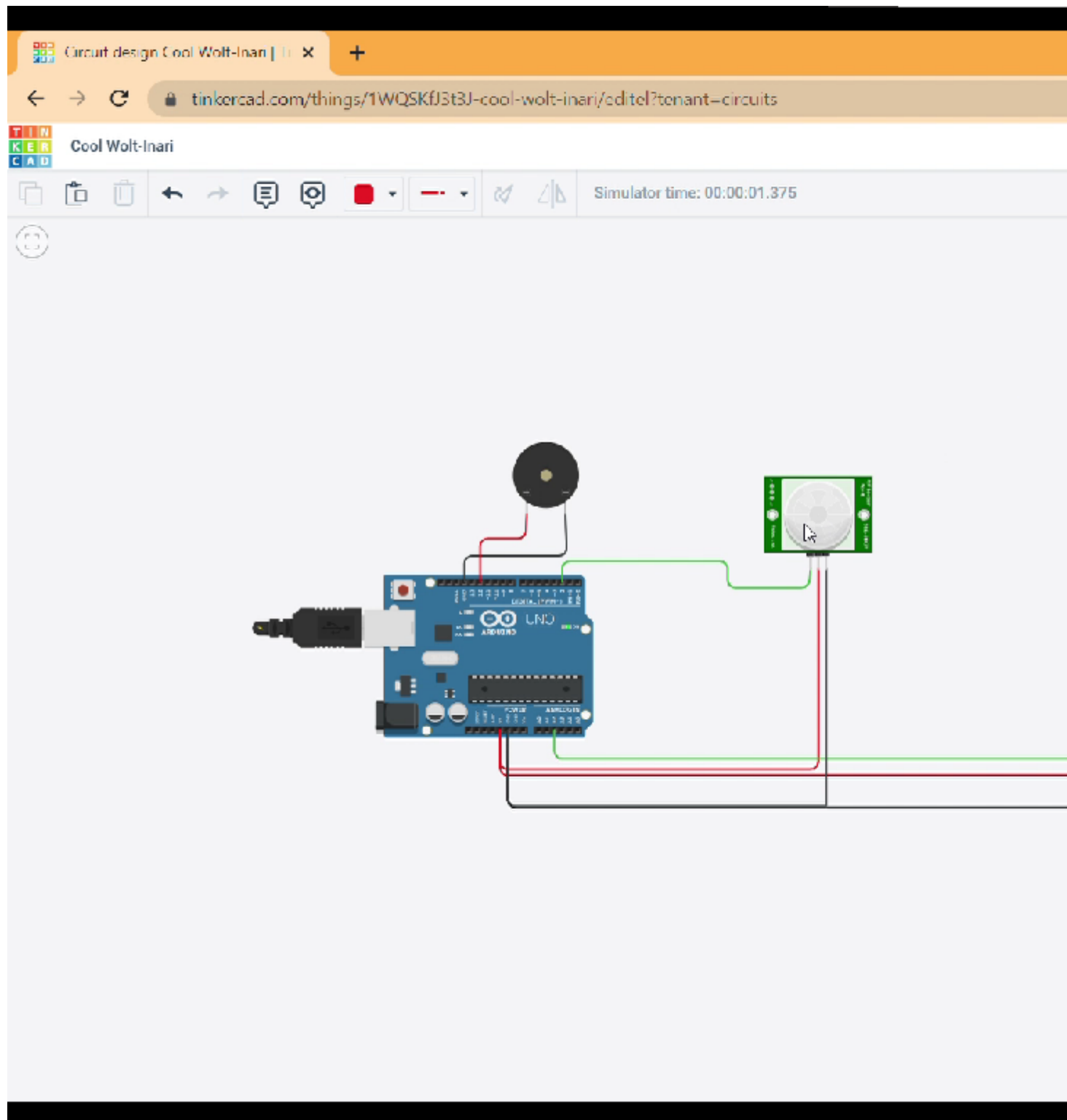
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CreatecircuitwithPiezoalarm,PIRsensor,tmpsensorwith below functionalities:

     1. Alarmshouldsoundinonemanneriftempisabove60degreeCelsius.

     2. Alarmshouldsoundwithanotherfrequencyifmotionisdetected inPIR sensor.
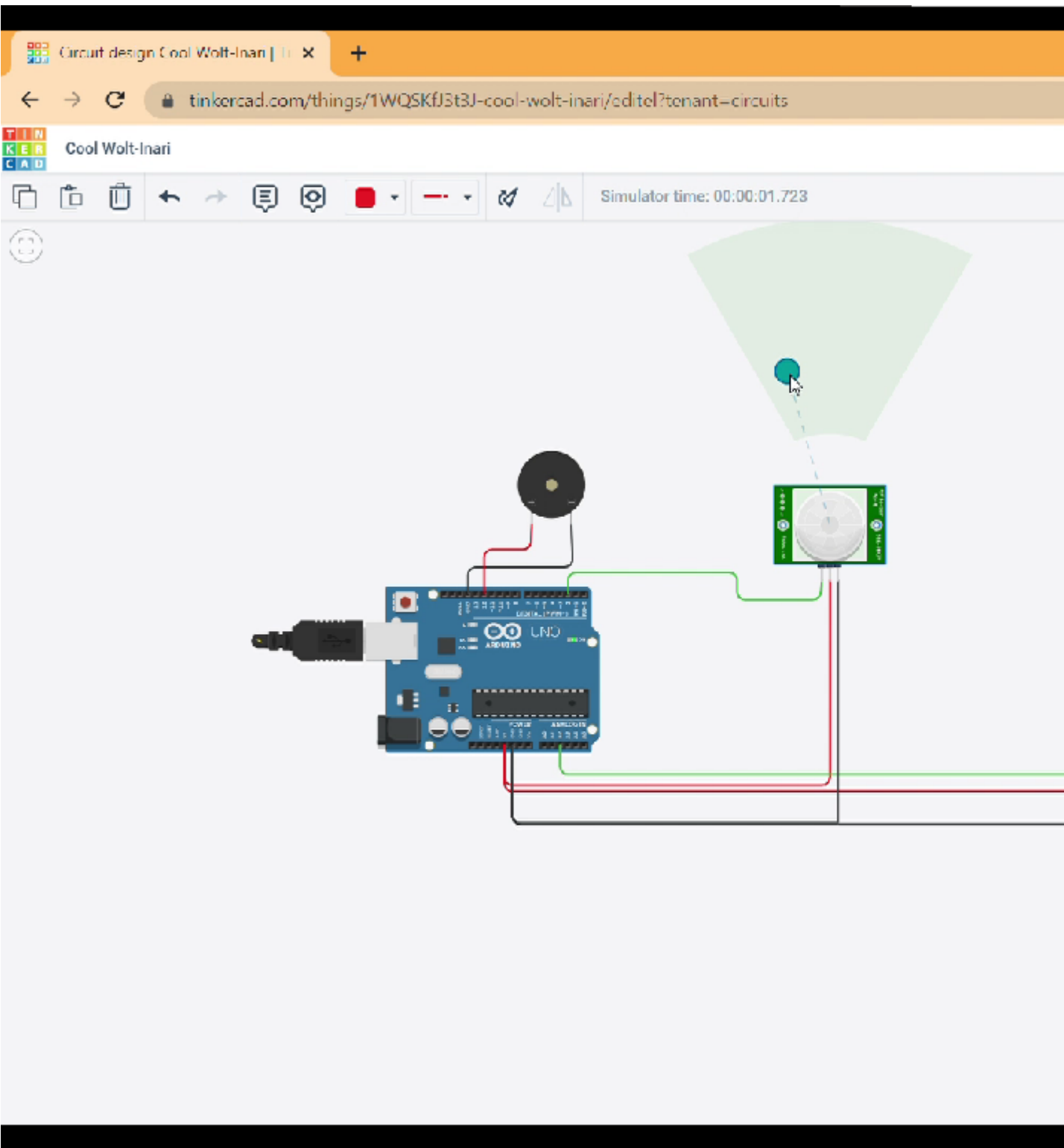
CODING:

```
voidsetup()

{

  Serial.begin(9600);pin

  Mode(2,INPUT);pinMo

  de(12,OUTPUT);

}

voidloop()

{

  int

  motion=digitalRead(2);if(motion=

  =1){Serial.println("Motion

  detected");tone(12,10);

    delay(1000);

    noTone(12);

    delay(1000);

  }

  else{

    Serial.println("Nomotion");
```
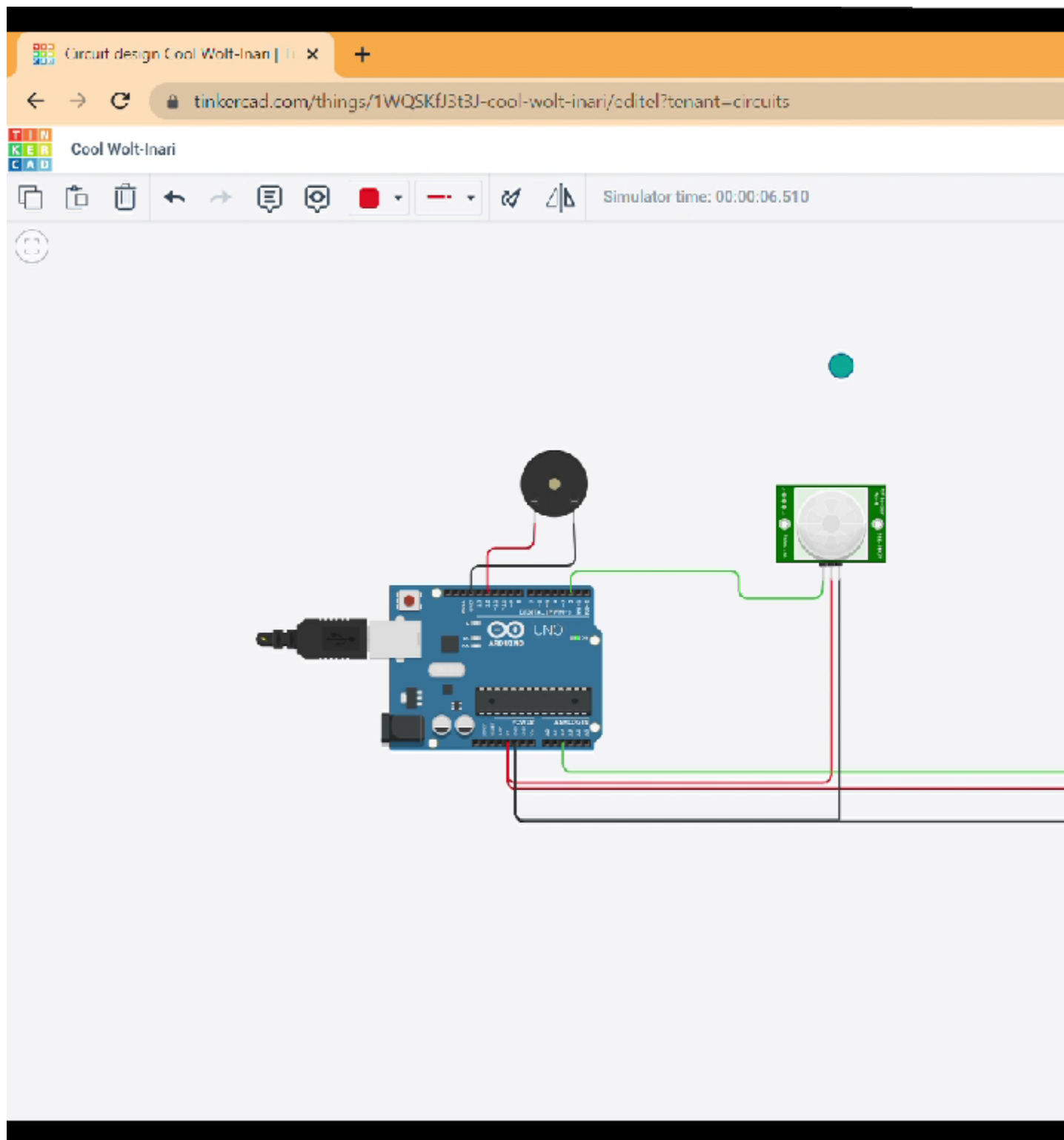
```
}
doubledata=analogRead(A2)
;doublen=data/1024;
double
volt=n*5;doubleof
f=volt-0.5;
double
temperature=off*100;Serial.prin
t("Temperaturedata:");Serial.pri
ntln(temperature);if(temperatur
e>60.00)
{
 tone(12,100
 );delay(500)
 ;noTone(12)
 ;delay(500);
}
}
```

OUTPUTS

Cool Wolt-Inari

Simulator time: 00:00:01.723

SIMULATIONLINK:

https://drive.google.com/file/d/1MaJt10c1P0_2PhSVujZzdckIHQlFu4XI/view?usp=sharing