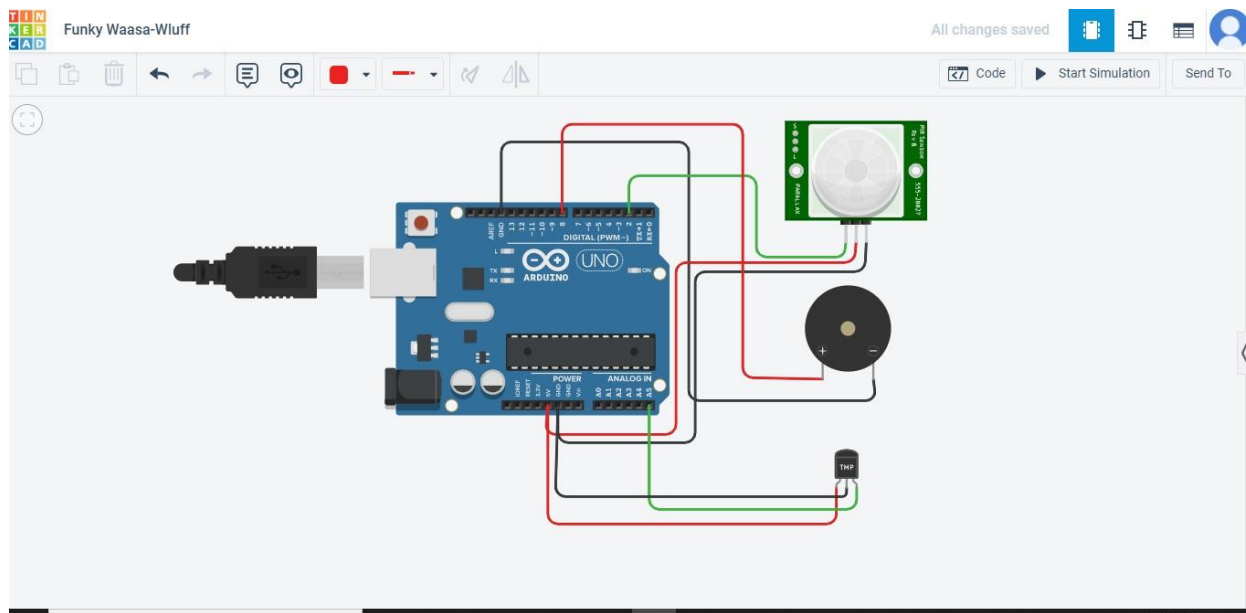


CONNECTIONS:



PROGRAM:

```
void setup()
{
  Serial.begin(9600);
  pinMode(8,OUTPUT);
  pinMode(2,INPUT);
}

void loop()
{
  int motion=digitalRead(2);
  double data=analogRead(A5);
  double n=data/1024;
  Serial.print("Converted Analog Data: ");
  Serial.println(n);
  double volt=n*5;
  double off=volt-0.5;
```

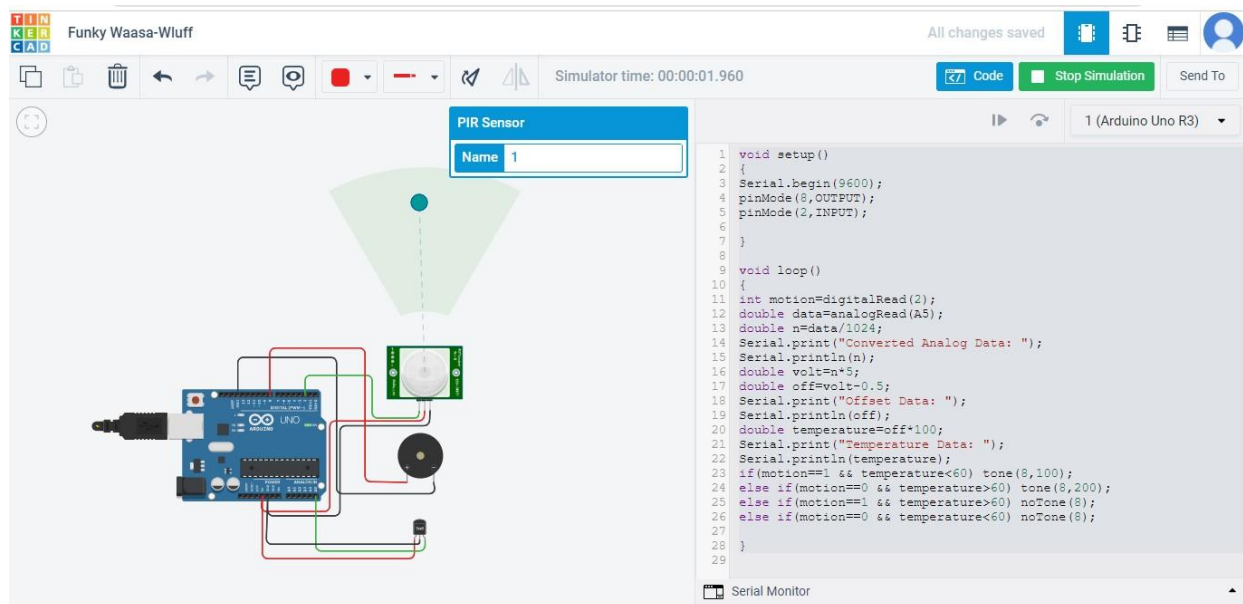
```

Serial.print("Offset Data: ");
Serial.println(off);
double temperature=off*100;
Serial.print("Temperature Data: ");
Serial.println(temperature);
if(motion==1 && temperature<60) tone(8,100);
else if(motion==0 && temperature>60) tone(8,200);
else if(motion==1 && temperature>60) noTone(8);
else if(motion==0 && temperature<60) noTone(8);

}

```

OUTPUT:



TIN
KER
CAD

Funky Waasa-Wluff

All changes saved

Simulator time: 00:00:01.398

Code

Stop Simulation

Send To

1

void setup()

2

{

3

Serial.begin(9600);

4

pinMode(8,OUTPUT);

5

pinMode(2,INPUT);

6

7

}

8

9

void loop()

10

{

11

int motion=digitalRead(2);

12

double data=analogRead(A5);

13

double n=data/1024;

14

Serial.print("Converted Analog Data: ");

15

Serial.println(n);

16

double volt=n*5;

17

double off=volt-0.5;

18

Serial.print("Offset Data: ");

19

Serial.println(off);

Serial Monitor

Temperature Data: 199.51
Converted Analog Data: 0.50
Offset Data: 2.00
Temperature Data: 199.51
Converted Analog Data: 0.50
Offset Data: 2.00
Temperature Data: 199.51
Converted A

Send

Clear