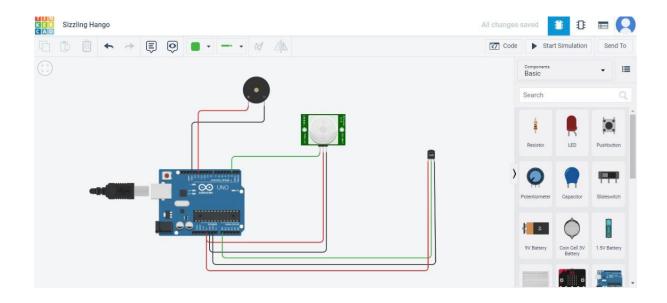
CIRCUIT CONNECTIONS:



PROGRAM:

```
void setup()
{
    Serial.begin(9600);
    pinMode(12,OUTPUT);
    pinMode(2,INPUT);
}

void loop()
{
    int motion=digitalRead(2);
    double data=analogRead(A0);
    double n=data/1024;
    Serial.print("Converted Analog Data: ");
    Serial.println(n);
    double volt=n*5; //because connected to 5v
    Serial.println(volt);
    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(12,100);
else if(motion==0 && temperature>60)
tone(12,200);
else if(motion==1 && temperature>60)
noTone(12);
else if(motion==0 && temperature<60)
noTone(12);
```

OUTPUT:

