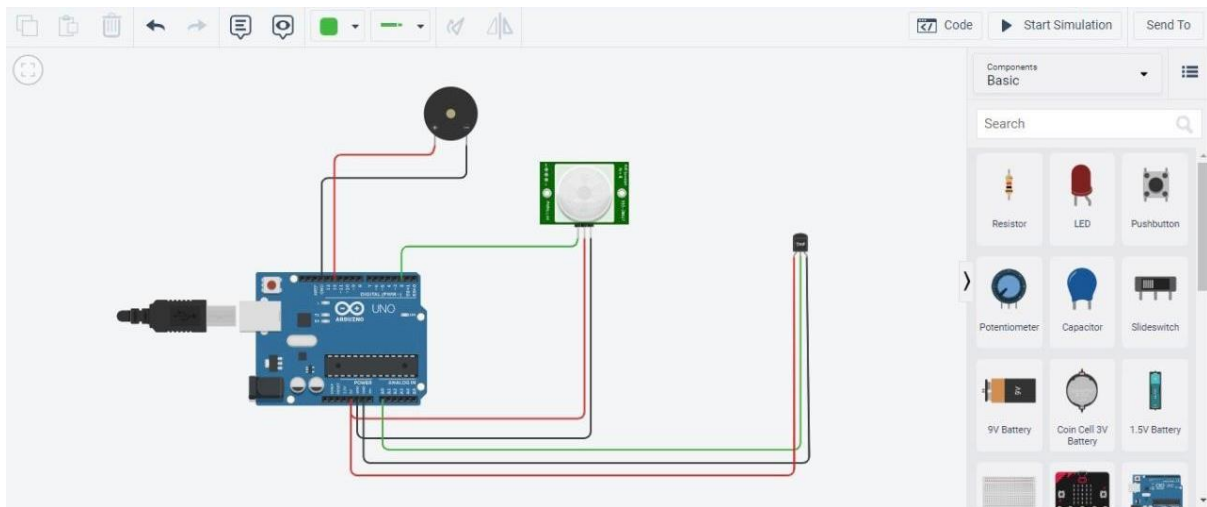


# ASSIGNMENT-1

## 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.print("Voltage data:
  "); 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:

