

# IBM ASSIGNMENT-I

TEAMID : PNT2022TMID26632

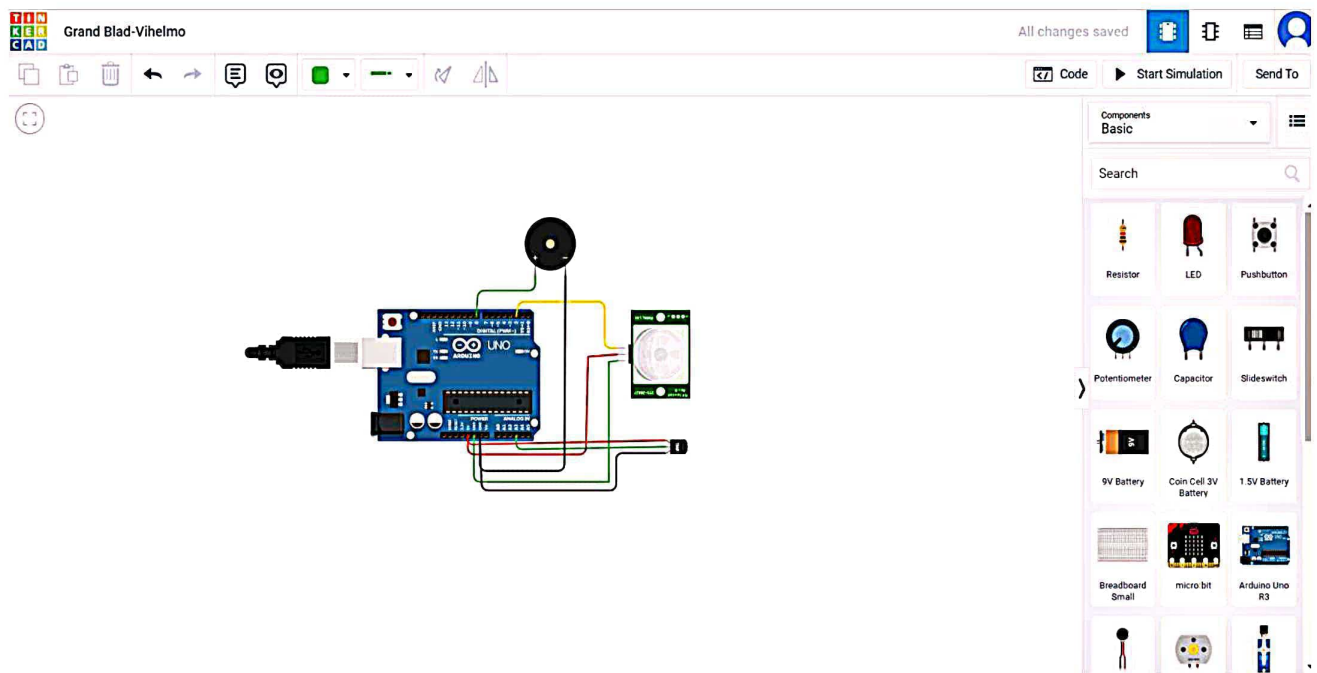
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Create a circuit with Piezo alarm, PIR Sensor, TMP Sensor with below functionalities:

1. Alarm should sound in one manner if temp is above 60C
2. Alarm should sound with another frequency if motion is detected in PIR Sensor.

CIRCUIT LAYOUT:

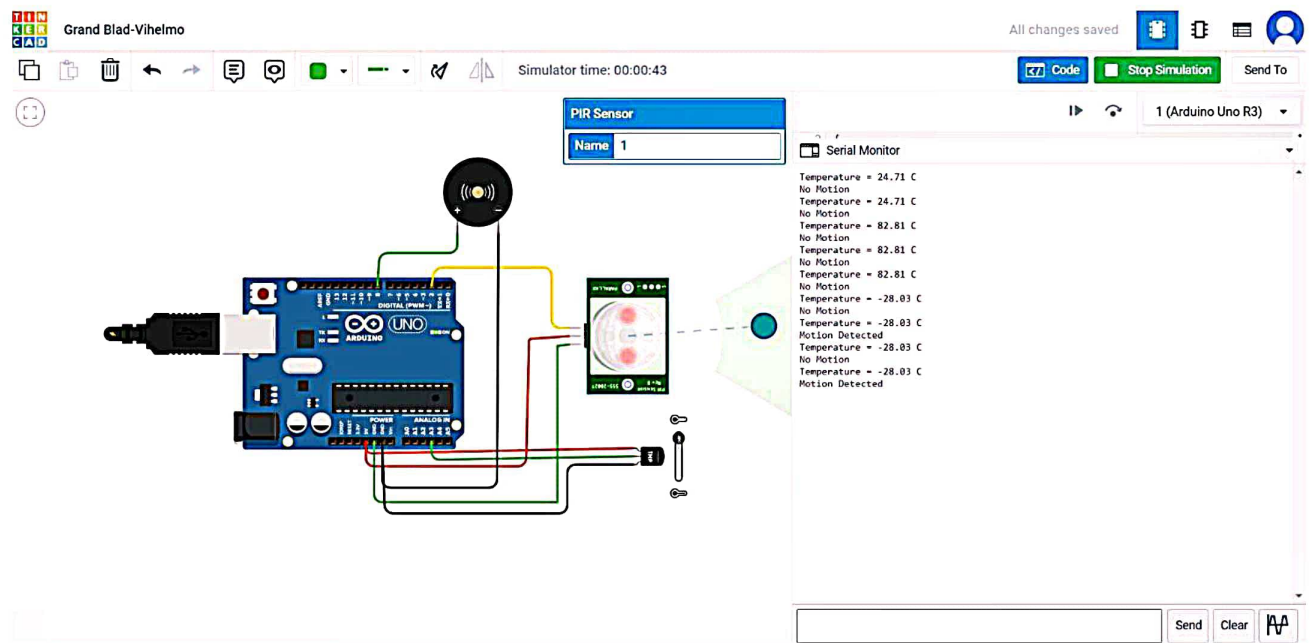


## CODE:

```
void setup()
{
  pinMode(A3,
  INPUT);pinMode(8,
  OUTPUT);pinMode(2,I
  NPUT);Serial.begin(96
  00);
}
void loop()
{
  float
  temp;temp=analogRea
  d(A3);temp
  =((temp*5)/1024);temp
  =(temp-0.5)*100;
  Serial.print("Temperature =
  ");Serial.print(temp);Serial.prin
  tln("C");
  int
  motion=digitalRead(2);if
  (motion==1){
    Serial.println("Motion
    Detected");tone(8,15000);
    delay(3000);
  }
  else{
    Serial.println("No
    Motion");noTone(8);
  }
  if
  (temp<59)
  noTone(8);
  if
  (temp>=60)t
  one(8,1000);
  delay(5000);
}
```

OUTPUT:

PASSIVEINFRAREDSENSOR:



TEMPERTURESENSOR(AT60°C):

