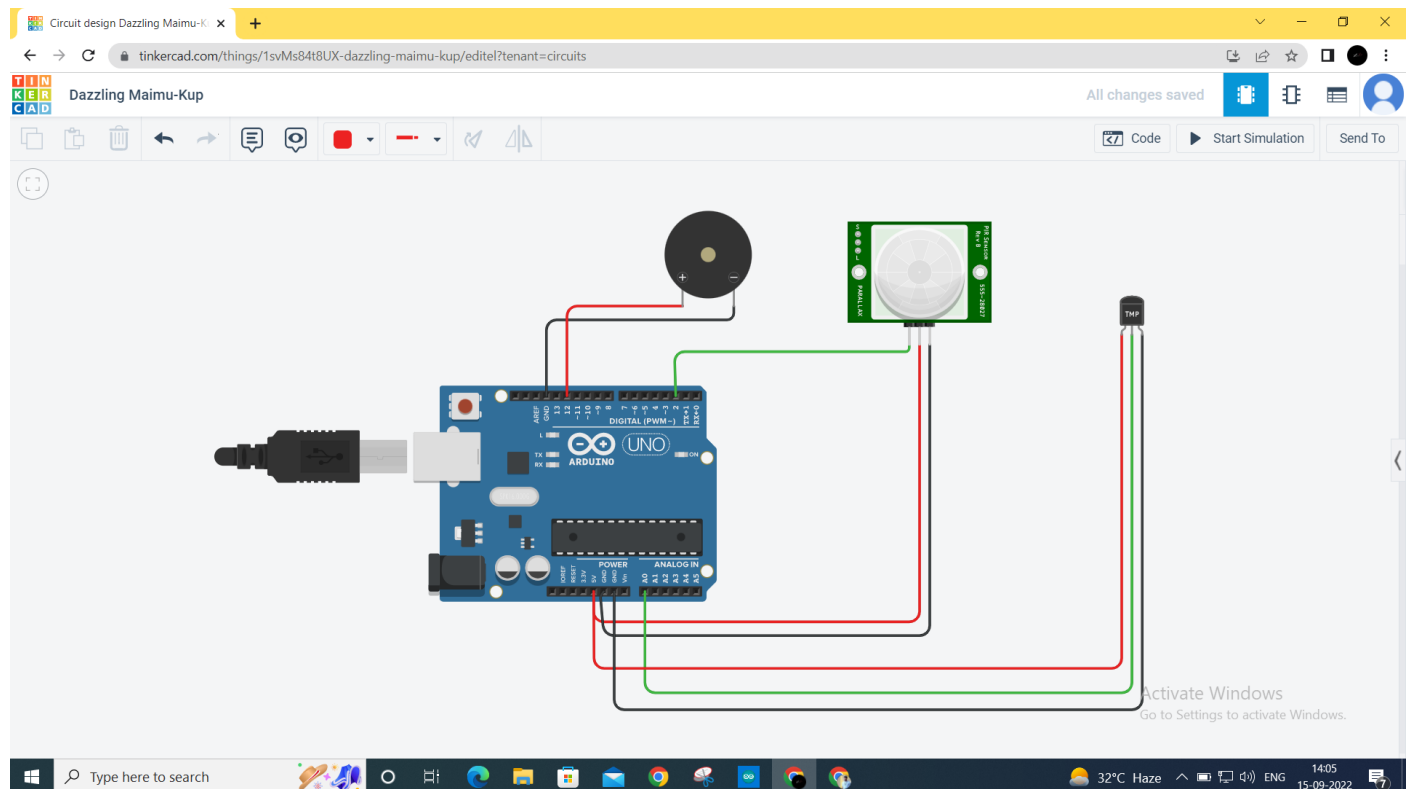
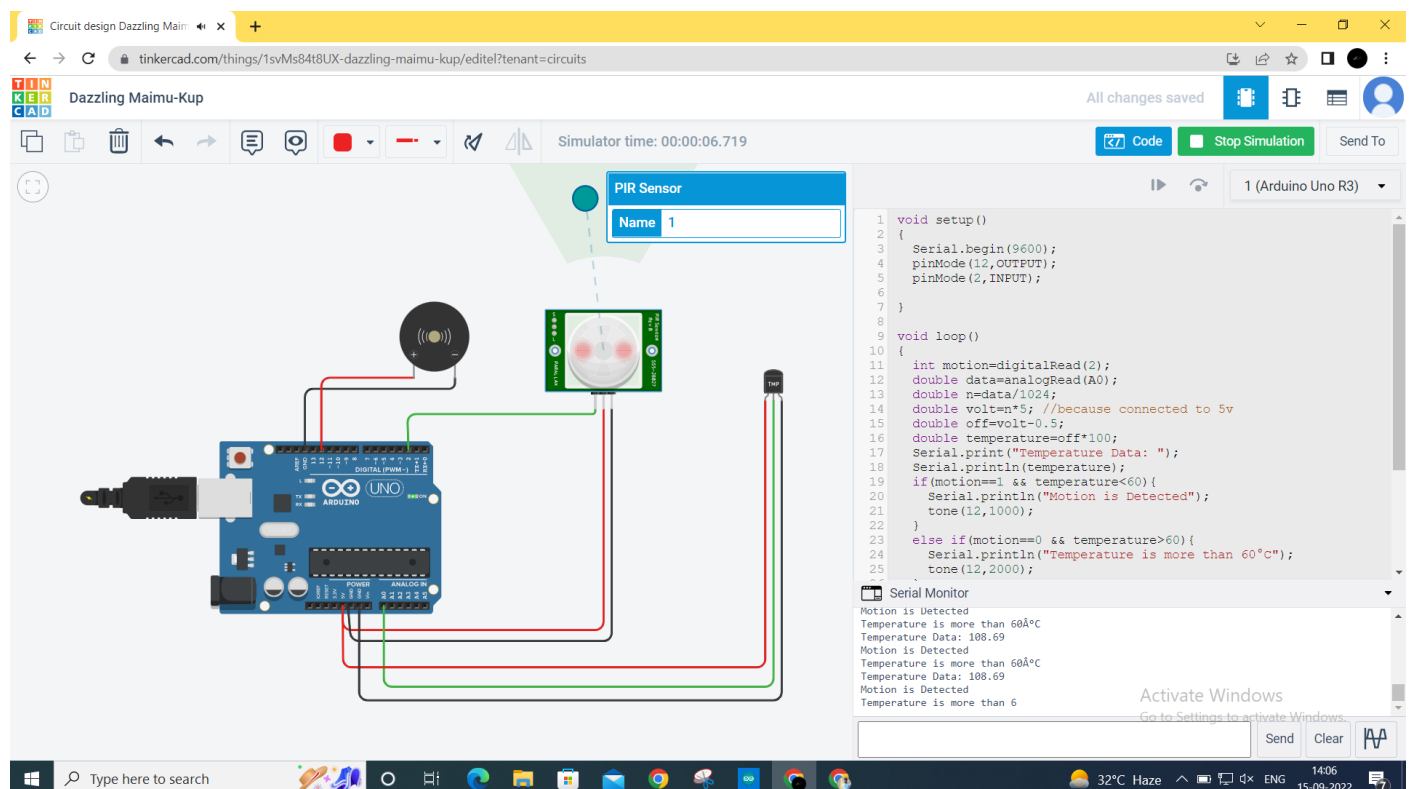


# CIRCUIT DIAGRAM:



# OUTPUT:



## **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;
  double volt=n*5; //because connected to 5v
  double off=volt-0.5;
  double temperature=off*100;
  Serial.print("Temperature Data: ");
  Serial.println(temperature);
  if(motion==1 && temperature<60){
    Serial.println("Motion is Detected");
    tone(12,1000);
  }
  else if(motion==0 && temperature>60){
    Serial.println("Temperature is more than 60°C");
    tone(12,2000);
  }
  else if(motion==1 && temperature>60){
    Serial.println("Motion is Detected");
    Serial.println("Temperature is more than 60°C");
    tone(12,5000);
  }
  else if(motion==0 && temperature<60)
    noTone(12);
}
```