

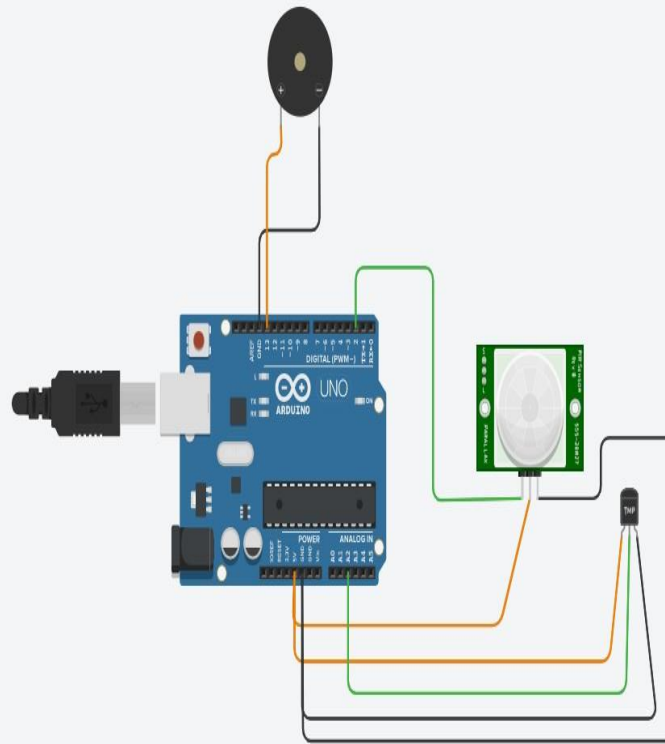
## ASSIGNMENT - 1

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Create circuit with Piezo alarm, PIR sensor, tmp sensor with below functionalities:

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



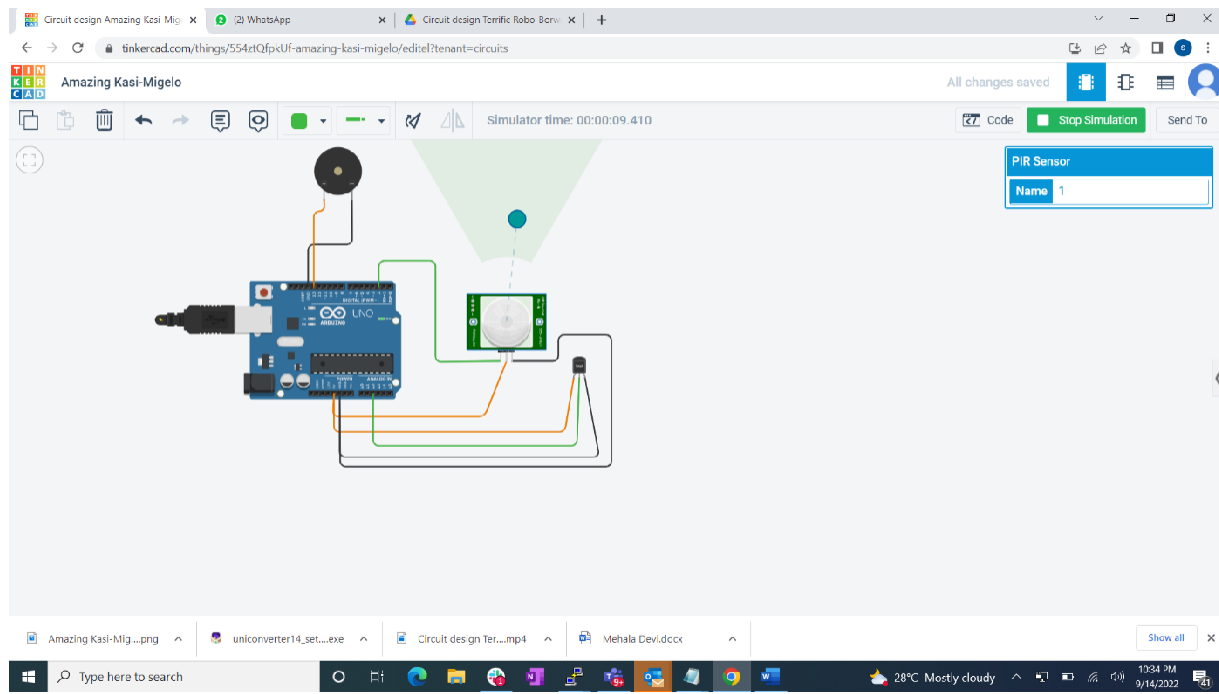
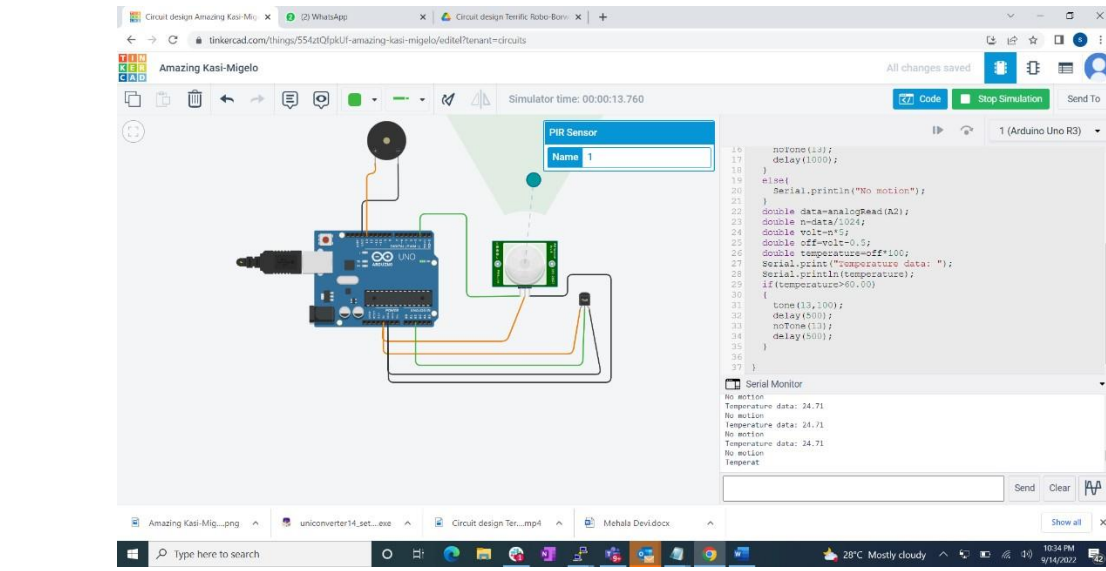
## ARDUINO UNO CODE

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

void loop()
{
  int motion=digitalRead(2);
  if(motion==1){
    Serial.println("Motion detected");
    tone(12,10);
    delay(1000);
    noTone(12);
    delay(1000);
  }
  else{
    Serial.println("No motion");
```

```
}  
double data=analogRead(A2);  
double n=data/1024;  
double volt=n*5;  
double off=volt-0.5;  
double temperature=off*100;  
Serial.print("Temperature data: ");  
Serial.println(temperature);  
if(temperature>60.00)  
{  
    tone(12,100);  
    delay(500);  
    noTone(12);  
    delay(500);  
}  
  
}
```

# OUTPUTS



SIMULATION LINK :

[https://drive.google.com/file/d/1Q8MIJ9eUGRzRy015p9n-W4J1Eot\\_zeq5/view?usp=drivesdk](https://drive.google.com/file/d/1Q8MIJ9eUGRzRy015p9n-W4J1Eot_zeq5/view?usp=drivesdk)

