ASSIGNMENT – 1

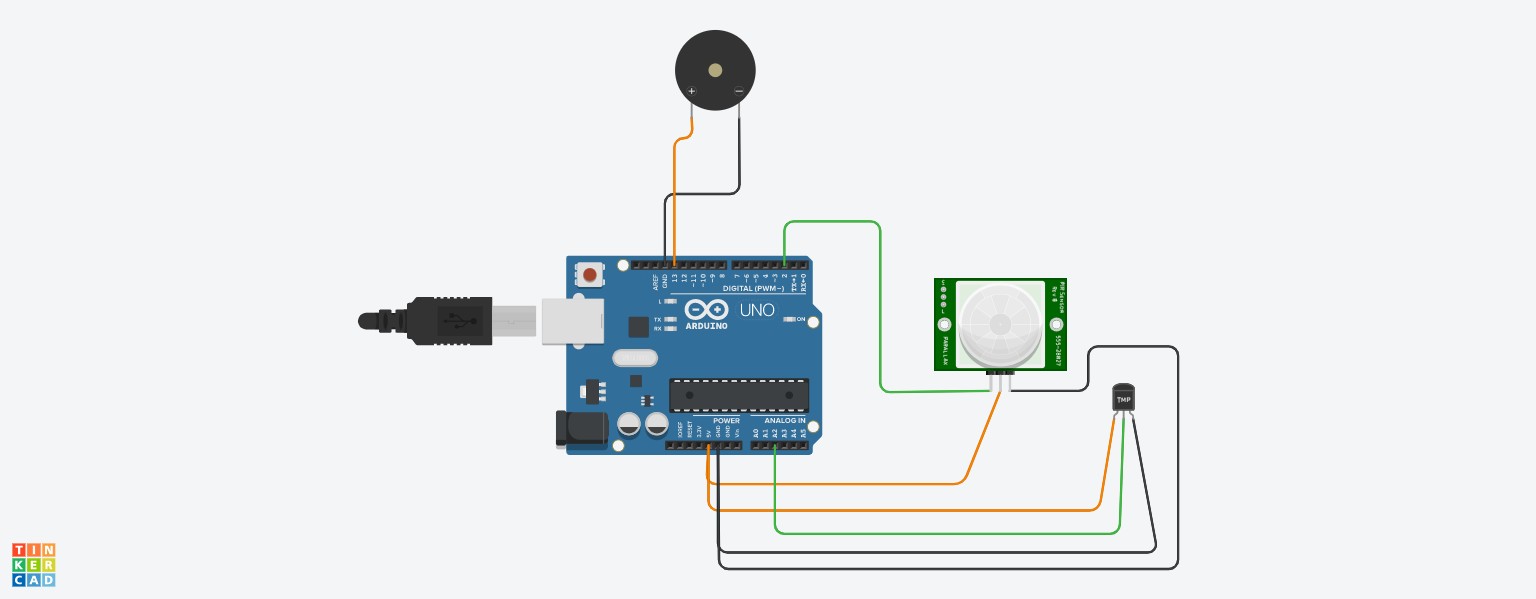
Batch no:3

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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)

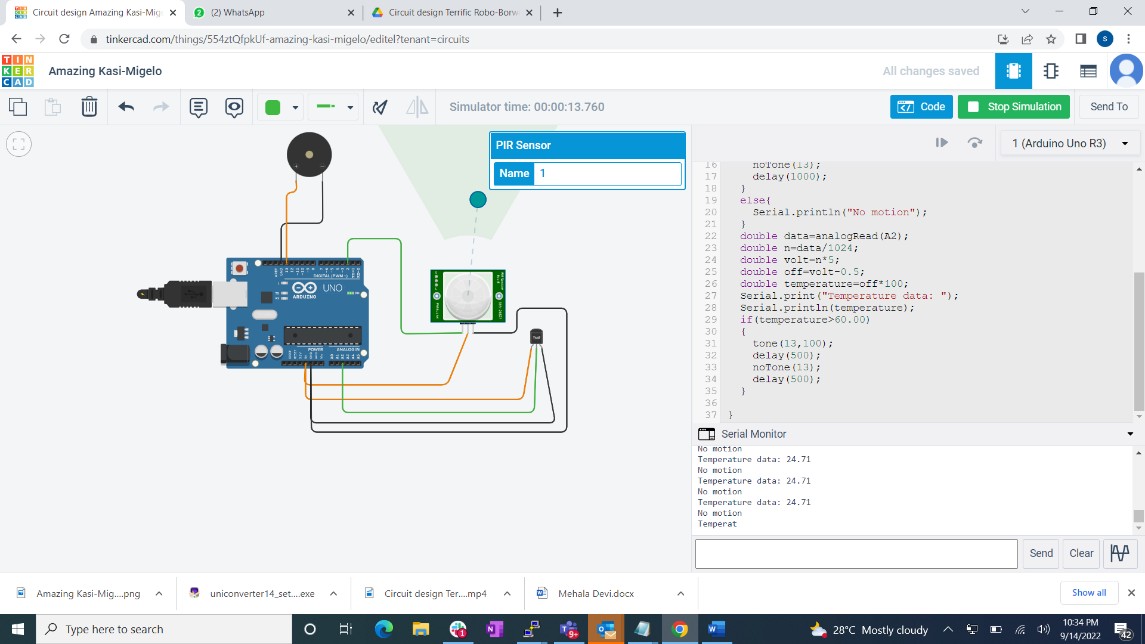
{

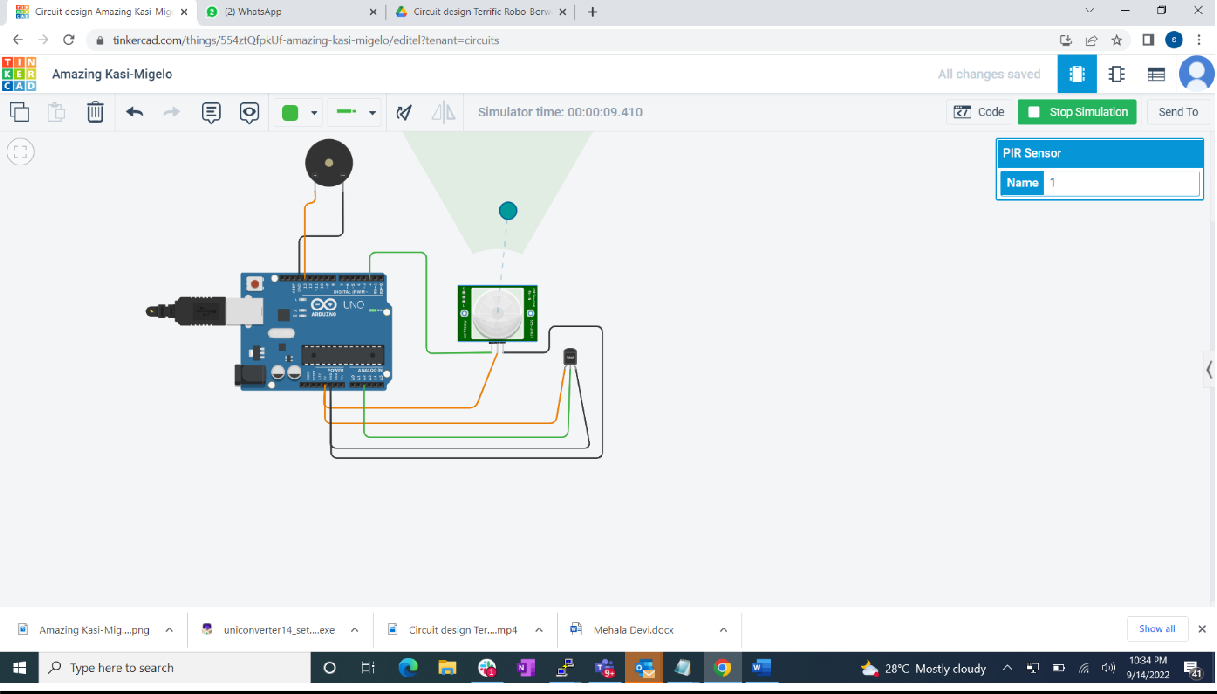
tone(12,100); delay(500); noTone(12); delay(500);

}

}

OUTPUTS





SIMULATION LINK :

[https://drive.google.com/file/d/1-0iRMMGtAFCbeP5rWDt-Kb2qgOMDS4ju/view?usp=drivesdk](https://drive.google.com/file/d/1-0iRMMGtAFCbeP5rWDt-Kb2qgOMDS4ju/view?usp=drivesdk%0c)