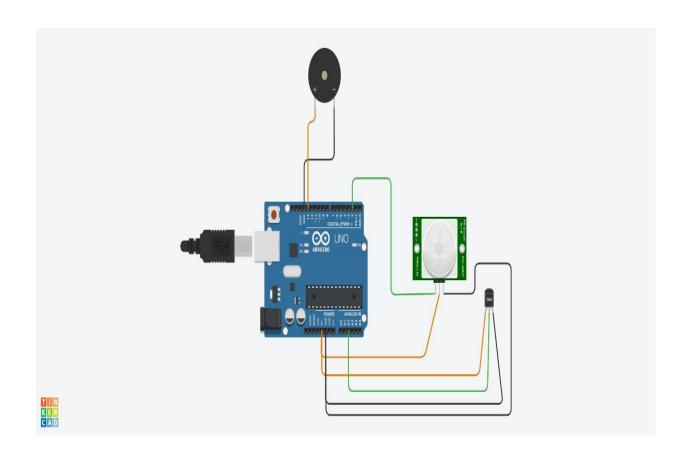
ASSIGNMENT - 1

NAME : Suganeswaran P

COLLEGE: Sona College Of Technology

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

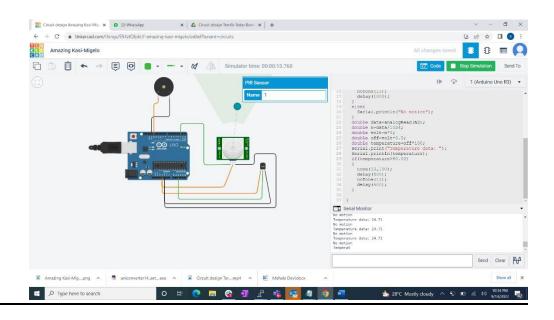


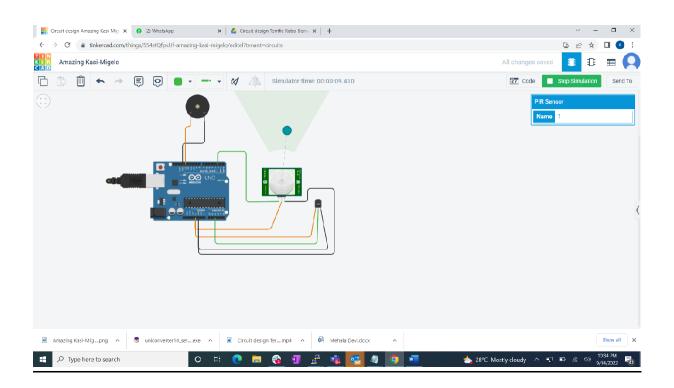
ARDUINO UNO CODE

```
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/1jy4Ij0gqlw4CjKSqmgB1c yljFwKyNsvj/view?usp=drivesdk