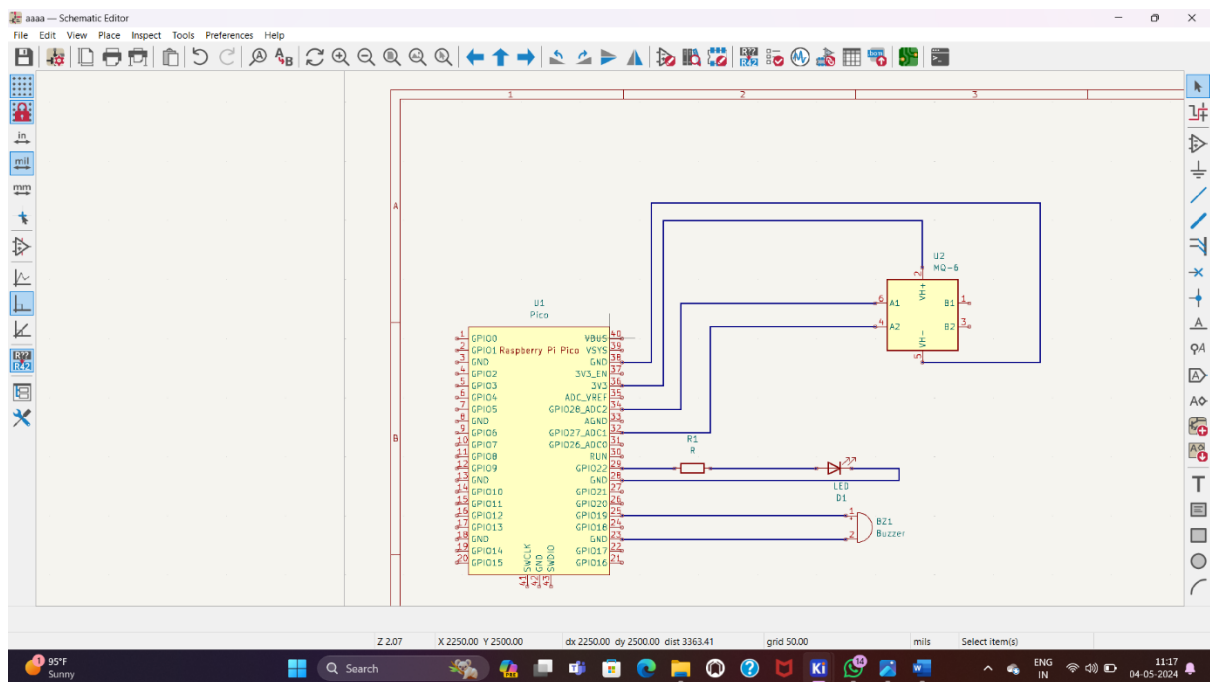
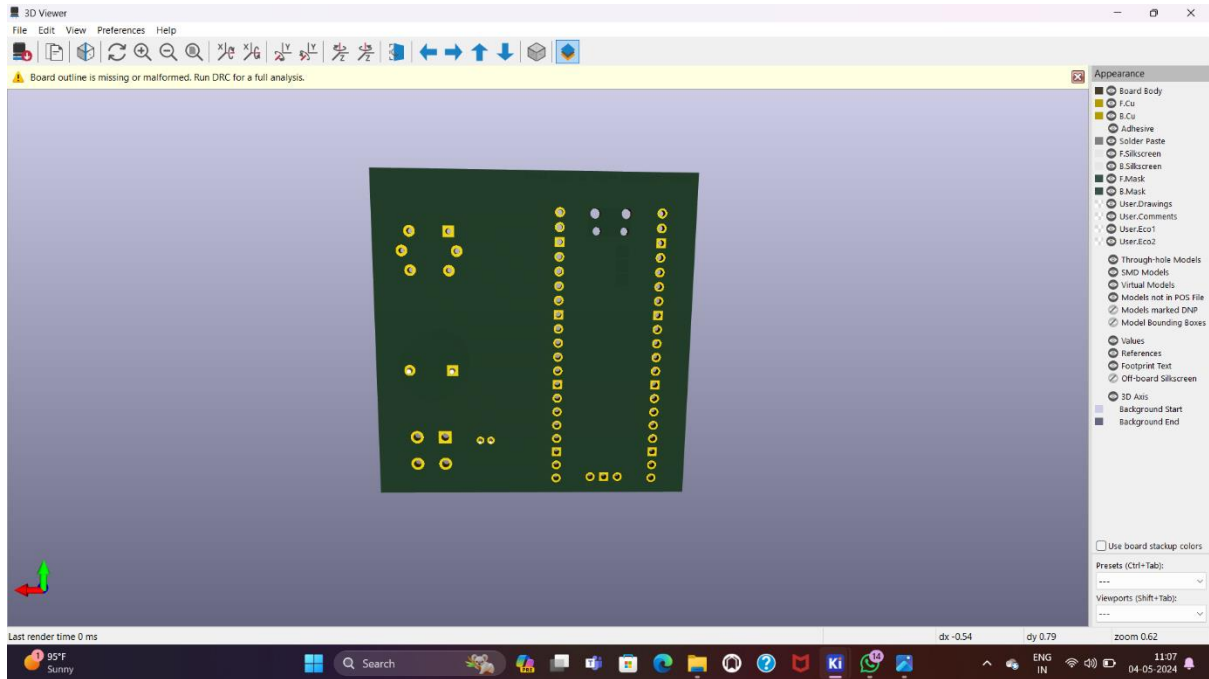


Hazardous gas detection system

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Roll no. 21781A04L9





PROGRAM

import machine

import time

Define pin numbers

PIR PIN machine. Pin(27, machine. Pin.IN)

BUZZER PIN machine. Pin(6, machine. Pin.OUT)

Function to activate the buzzer

def activate_buzzer():

BUZZER PIN.on() #Turn buzzer on

time.sleep(0.5) #Keep buzzer on for 0.5 seconds

BUZZER PIN.off() #Turn buzzer off

Main loop to detect motion

while True:

if PIR.PIN.value(): #PIR sensor detects motion

print("Motion detected!")

activate_buzzer() # Activate the buzzer

time.sleep(0.2) #Small delay to debounce and save CPU

OUTPUT:-

Motion detected

Motion detected

Motion detected

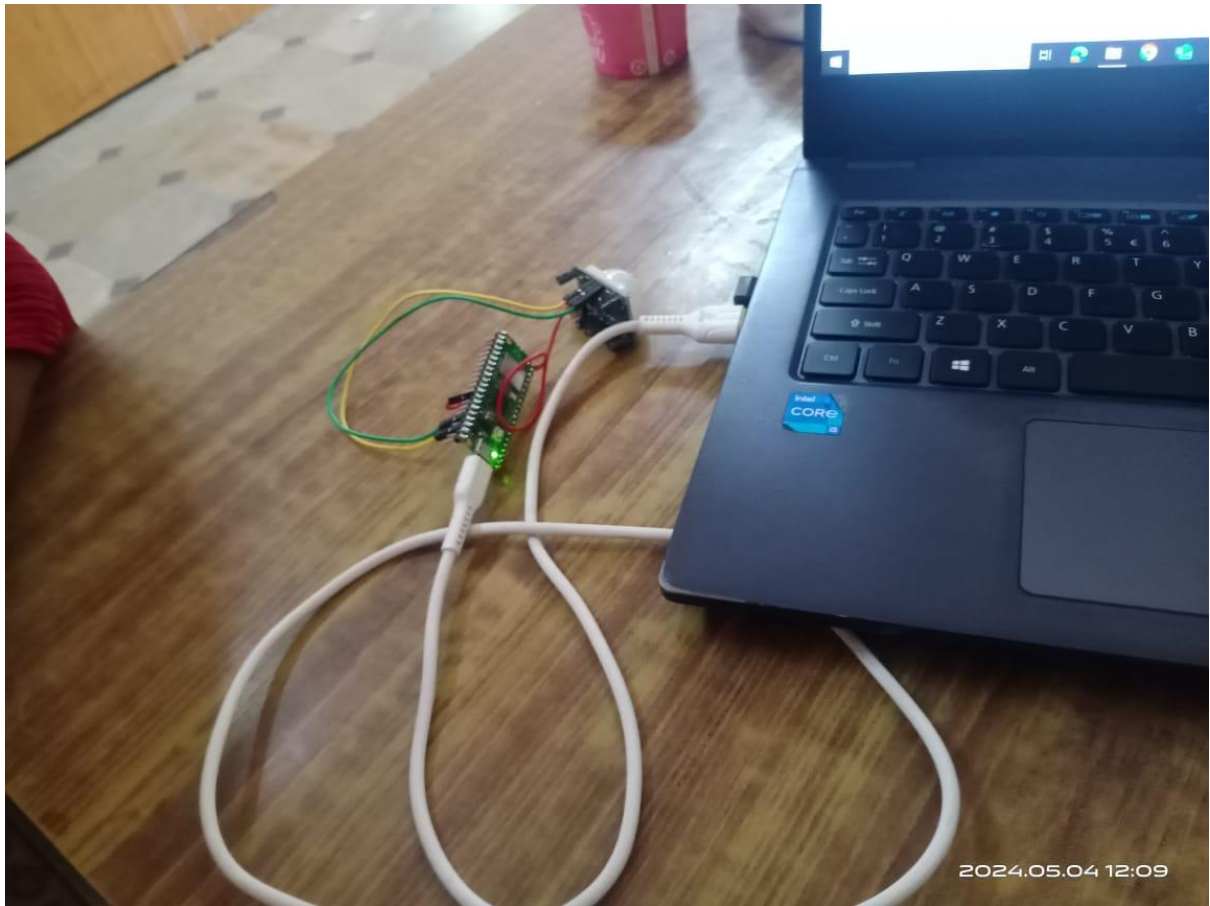
Motion detected

Motion detected

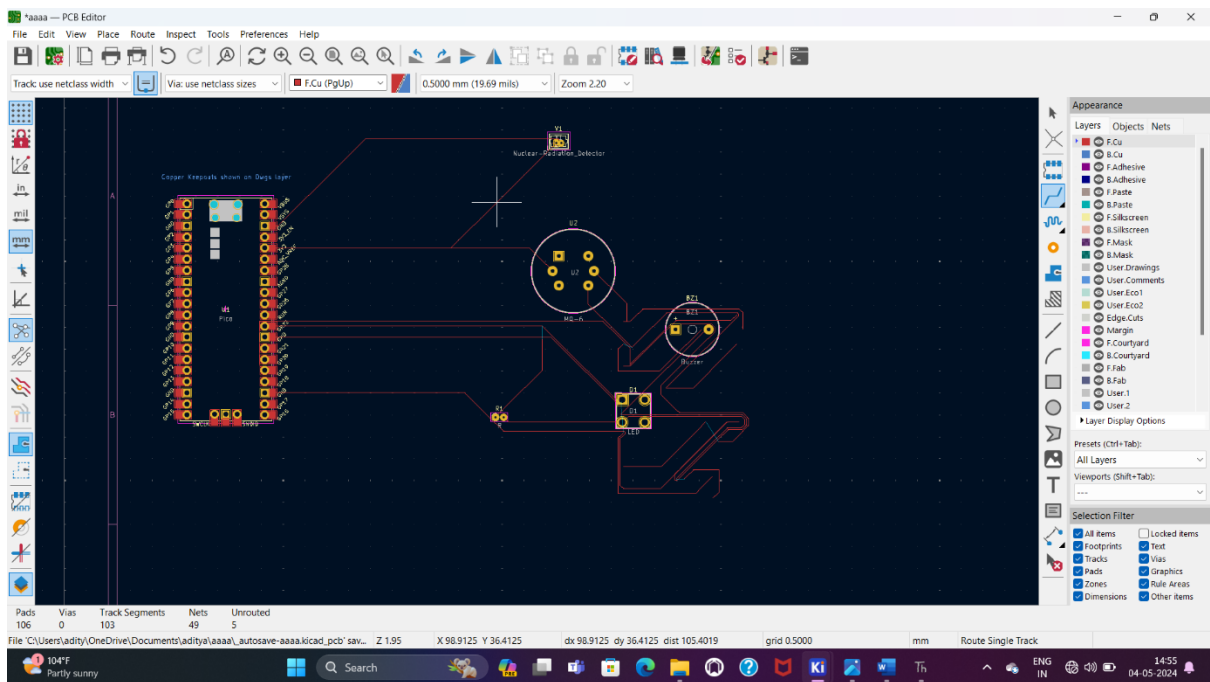
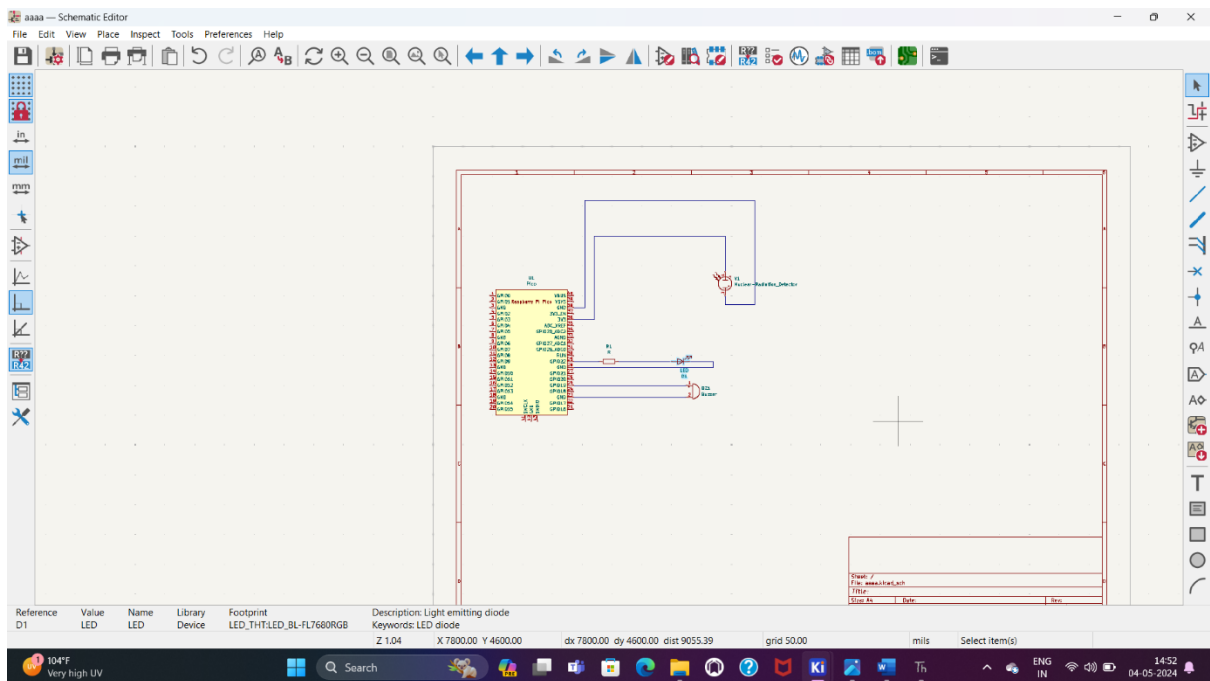
Motion detected

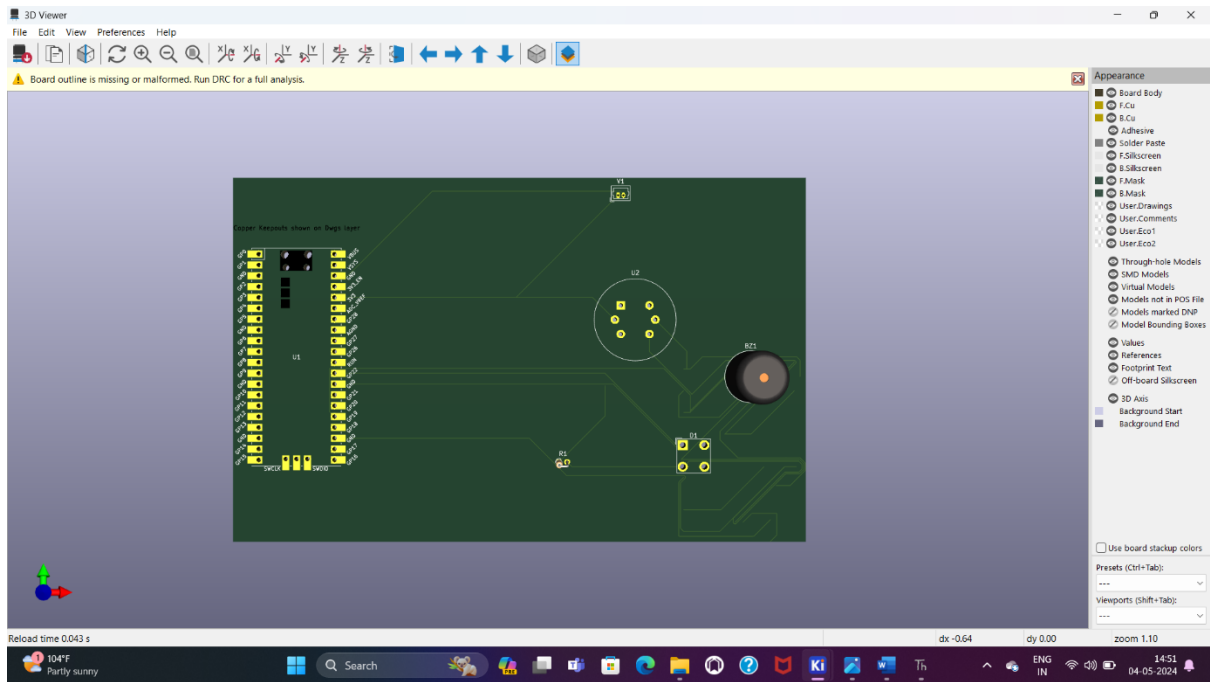
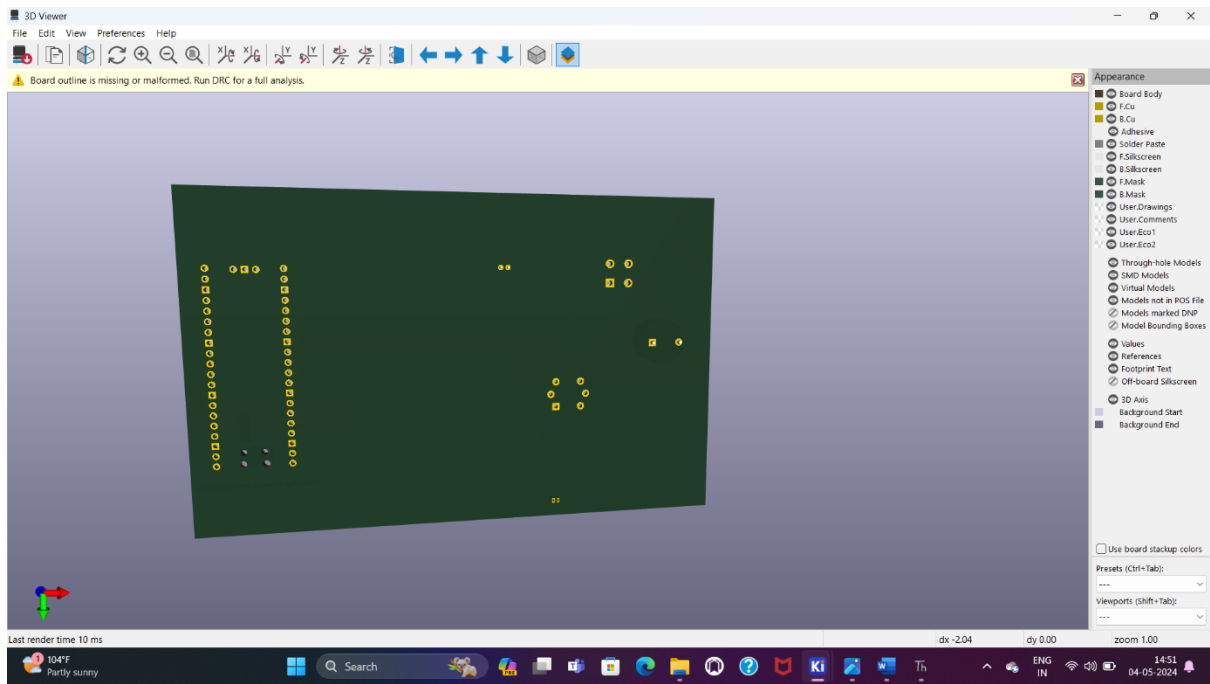
Motion detected

Motion detected



NUCLEAR RADITION DETECTION





CONCLUSION:-

For a conclusion on a hazards gas detector, you could summarize its importance in safeguarding against dangerous gas leaks, emphasizing its role in protecting lives, property, and the environment. Highlight its ability to provide early warnings, allowing for timely response and mitigation measures. Additionally, you might mention the importance of regular maintenance and calibration to ensure accurate and reliable performance. Overall, a hazards gas detector is a critical tool in industrial, commercial, and residential settings for maintaining safety and preventing accidents related to gas leaks.