**Task 1.1A**

**Source code:**

from scapy.all import \*

def print\_pkt(pkt):

pkt.show()

pkt = sniff(iface='br-c95482e4c27a', filter='icmp', prn=print\_pkt)

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

**Task 1.1B**

**Source code 1:**

from scapy.all import \*

def print\_pkt(pkt):

pkt.show()

pkt = sniff(iface='br-c95482e4c27a', filter='tcp && src host 10.9.0.5 && dst port 23', prn=print\_pkt)

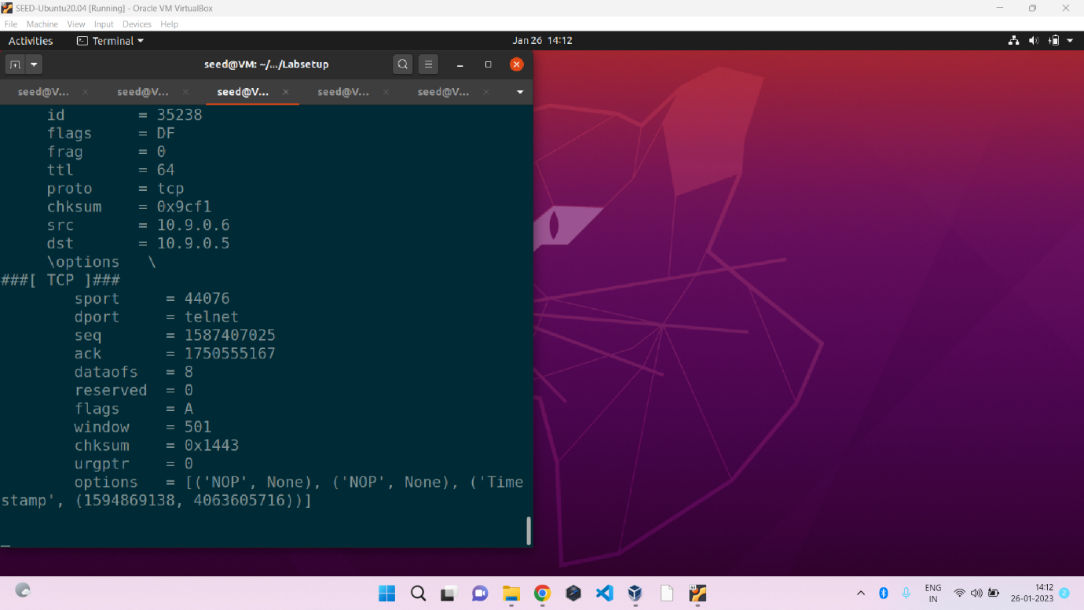
**Source code 2:**

from scapy.all import \*

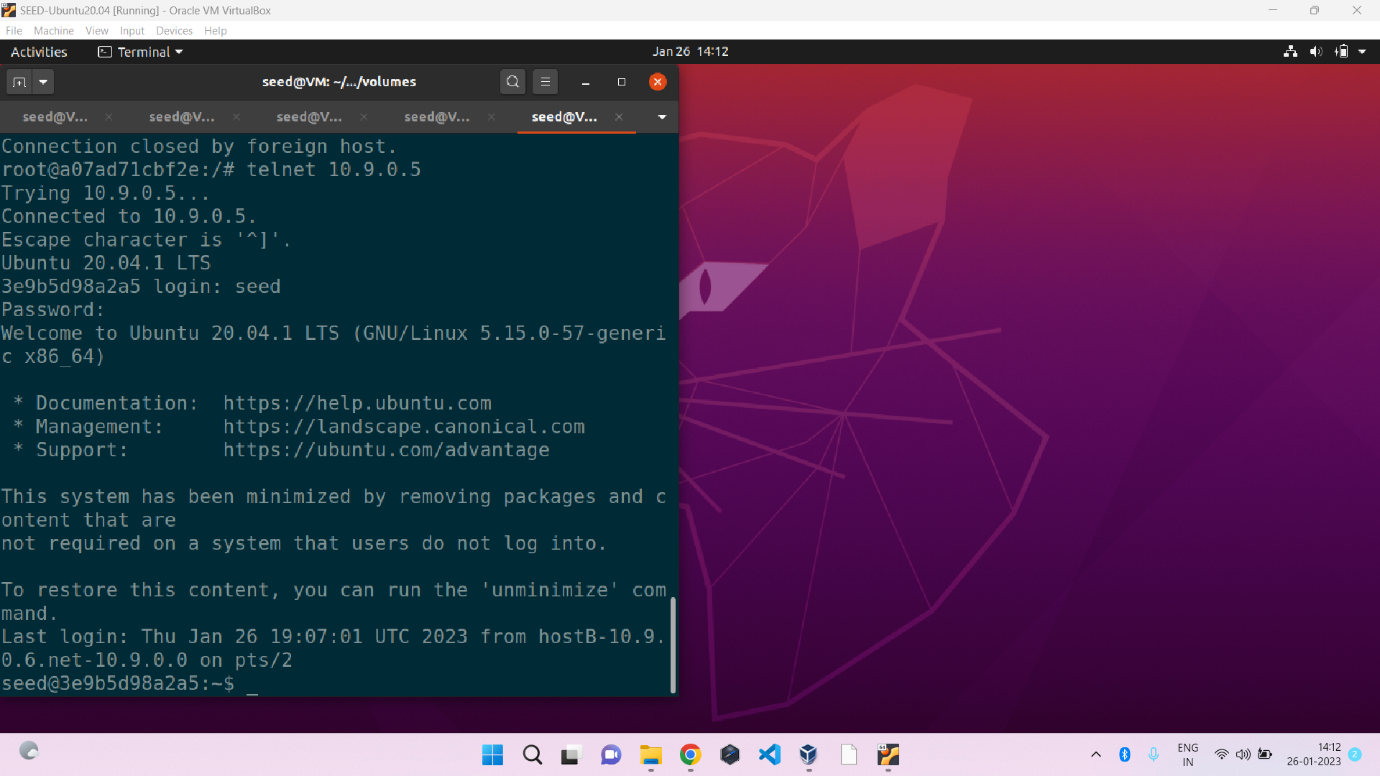
def print\_pkt(pkt):

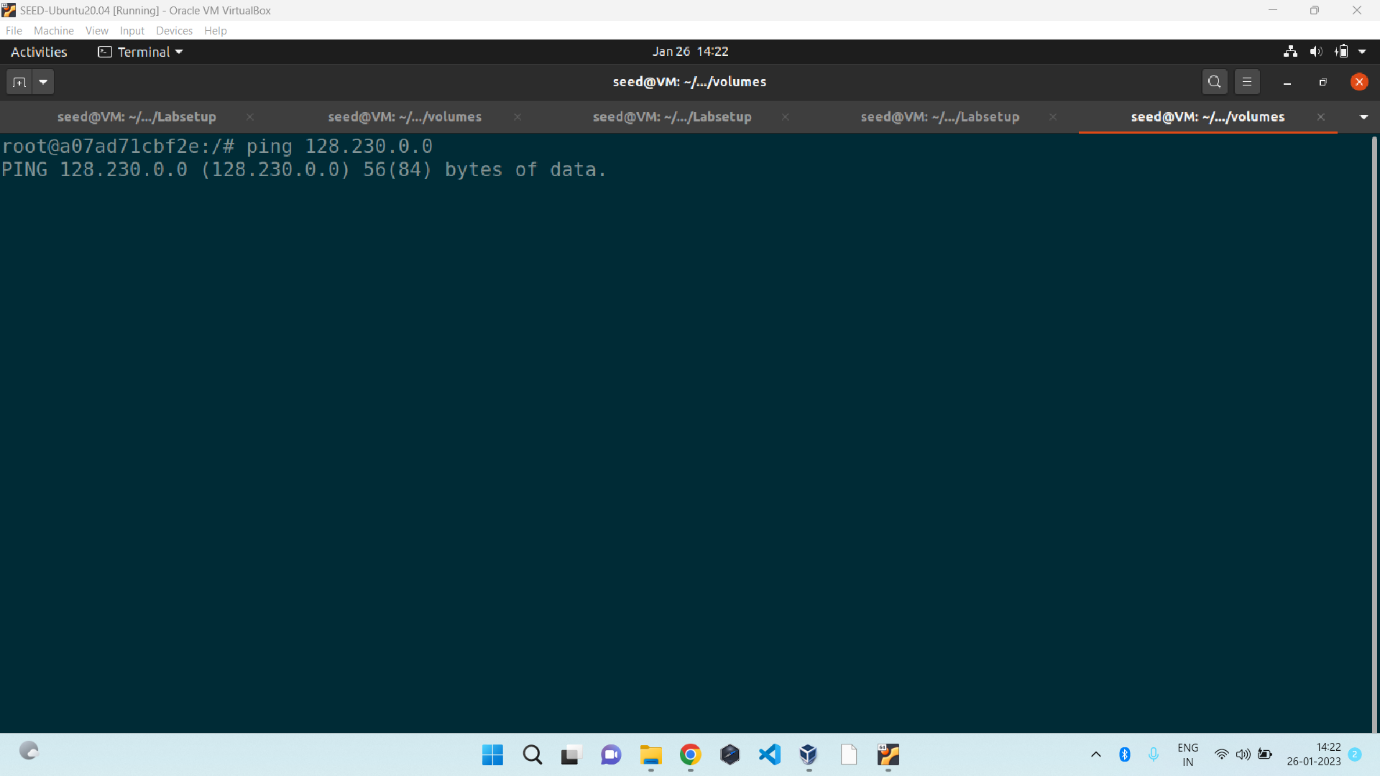
pkt.show()

pkt = sniff(iface='br-c95482e4c27a', filter='net 128.230.0.0/16', prn=print\_pkt)



A screenshot of a computer

Description automatically generated



**Task 1.2**

**Source code:**

from scapy.all import \*

a =IP()

a.dst='1.2.3.4'

b=ICMP()

p=a/b

ls(a)

send(p, iface='br-c95482e4c27a')

Text, application

Description automatically generated

A screenshot of a computer

Description automatically generated

**Task 1.3**

**Source code:**

from scapy.all import \*

def x():

a =IP()

a.dst='8.8.4.4'

a.ttl=5

b=ICMP()

a = sr1(a/b)

print("source:",a.src)

x()

A screenshot of a computer

Description automatically generated

**Task 1.4**

**Source code:**

from scapy.all import \*

def spoof\_pkt(pkt):

if ICMP in pkt and pkt[ICMP].type==8:

print('original packet...')

print("src IP:",pkt[IP].src)

print("dst IP:",pkt[IP].dst)

ip = IP(src=pkt[IP].dst, dst=pkt[IP].src, ihl=pkt[IP].ihl)

icmp=ICMP(type=0, id=pkt[ICMP].id, seq=pkt[ICMP].seq)

data =pkt[Raw].load

newpkt=ip/icmp/data

print("spoofed pkt,...")

print("source IP:",newpkt[IP].src)

print("dst IP..",newpkt[IP].dst)

send(newpkt, verbose=0)

#filter = "icmp and host 1.2.3.4"

#filter = "icmp and host 10.9.0.99"

filter = "icmp and host 8.8.4.4"

pkt=sniff(iface='br-c95482e4c27a',filter=filter, prn=spoof\_pkt)

