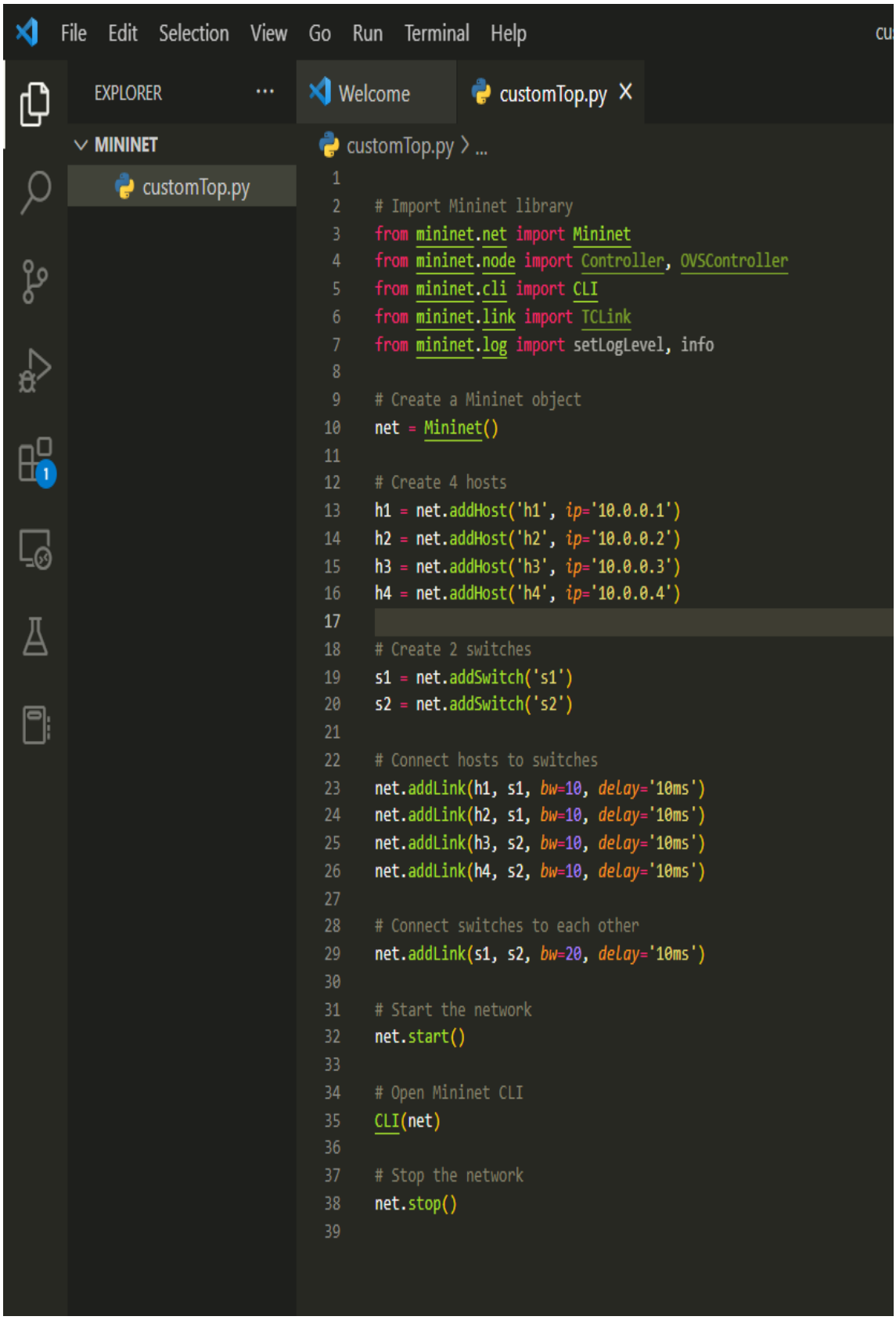
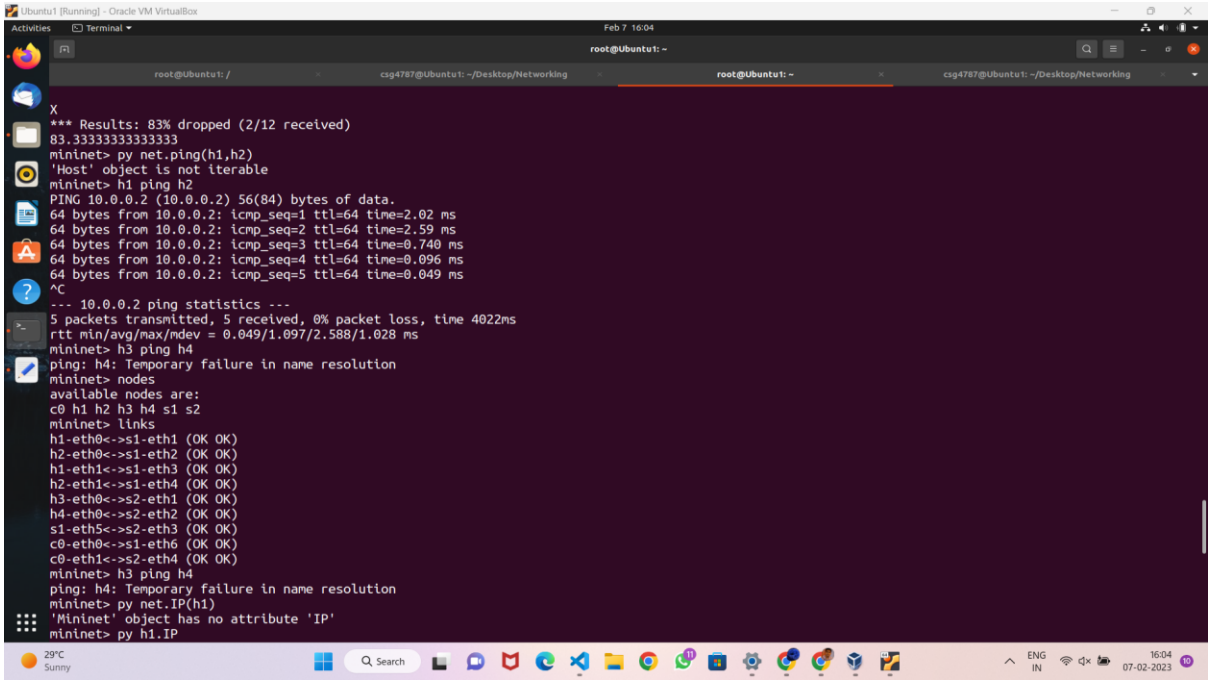
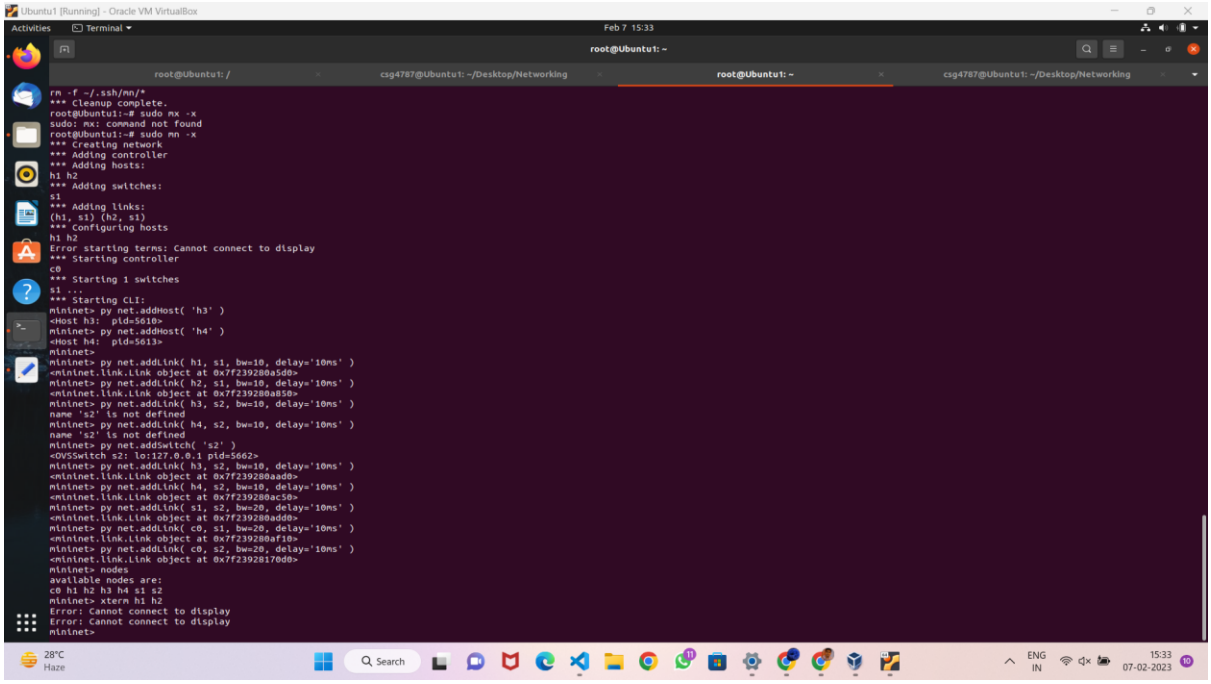
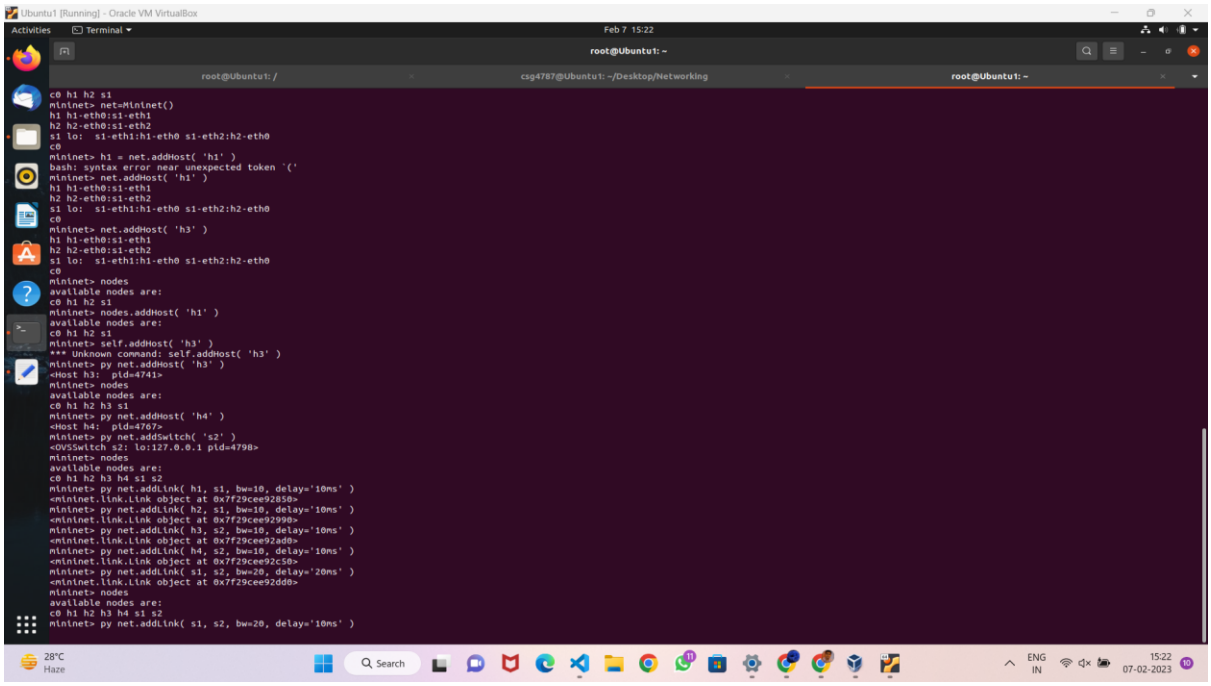
Assignment-4




Ubuntu1 [Running] - Oracle VM VirtualBox
Activities
Terminal
Feb 7 16:04
root@Ubuntu1: ~
root@Ubuntu1: /
csg4787@Ubuntu1: ~/Desktop/Networking
root@Ubuntu1: ~
csg4787@Ubuntu1: ~/Desktop/Networking
X
*** Results: 83% dropped (2/12 received)
83.33333333333333
mininet> py net.ping(h1,h2)
'Host' object is not iterable
mininet> h1 ping h2
PING 10.0.0.2 (10.0.0.2) 56(84) bytes of data.
64 bytes from 10.0.0.2: icmp_seq=1 ttl=64 time=2.02 ms
64 bytes from 10.0.0.2: icmp_seq=2 ttl=64 time=2.59 ms
64 bytes from 10.0.0.2: icmp_seq=3 ttl=64 time=0.740 ms
64 bytes from 10.0.0.2: icmp_seq=4 ttl=64 time=0.096 ms
64 bytes from 10.0.0.2: icmp_seq=5 ttl=64 time=0.049 ms
^C
--- 10.0.0.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4022ms
rtt min/avg/max/mdev = 0.049/1.097/2.588/1.028 ms
mininet> h3 ping h4
ping: h4: Temporary failure in name resolution
mininet> nodes
available nodes are:
c0 h1 h2 h3 h4 s1 s2
mininet> links
h1-eth0<->s1-eth1 (OK OK)
h2-eth0<->s1-eth2 (OK OK)
h1-eth1<->s1-eth3 (OK OK)
h2-eth1<->s1-eth4 (OK OK)
h3-eth0<->s2-eth1 (OK OK)
h4-eth0<->s2-eth2 (OK OK)
s1-eth5<->s2-eth3 (OK OK)
c0-eth0<->s1-eth6 (OK OK)
c0-eth1<->s2-eth4 (OK OK)
mininet> h3 ping h4
ping: h4: Temporary failure in name resolution
mininet> py net.IP(h1)
'Mininet' object has no attribute 'IP'
mininet> py h1.IP
29°C
Sunny
Search
ENG
IN
16:04
07-02-2023


Ubuntu1 [Running] - Oracle VM VirtualBox
Activities
Terminal
Feb 7 15:33
root@Ubuntu1: ~
root@Ubuntu1: /
csg4787@Ubuntu1: ~/Desktop/Networking
root@Ubuntu1: ~
csg4787@Ubuntu1: ~/Desktop/Networking
rm -f ~/.ssh/mn/*
*** Cleanup complete.
root@Ubuntu1:~# sudo mx -x
sudo: mx: command not found
root@Ubuntu1:~# sudo mn -x
*** Creating network
*** Adding controller
*** Adding hosts:
h1 h2
*** Adding switches:
s1
*** Adding links:
(h1, s1) (h2, s1)
*** Configuring hosts
h1 h2
Error starting terms: Cannot connect to display
*** Starting controller
c0
*** Starting 1 switches
s1 ...
*** Starting CLI:
mininet> py net.addHost('h3')
<Host h3: pid=5610>
mininet> py net.addHost('h4')
<Host h4: pid=5613>
mininet>
mininet> py net.addLink(h1, s1, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f239280a5d0>
mininet> py net.addLink(h2, s1, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f239280a850>
mininet> py net.addLink(h3, s2, bw=10, delay='10ms')
name 's2' is not defined
mininet> py net.addLink(h4, s2, bw=10, delay='10ms')
name 's2' is not defined
mininet> py net.addSwitch('s2')
<OVSSwitch s2: lo:127.0.0.1 pid=5662>
mininet> py net.addLink(h3, s2, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f239280aad0>
mininet> py net.addLink(h4, s2, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f239280ac50>
mininet> py net.addLink(s1, s2, bw=20, delay='10ms')
<mininet.link.Link object at 0x7f239280add0>
mininet> py net.addLink(c0, s1, bw=20, delay='10ms')
<mininet.link.Link object at 0x7f239280af10>
mininet> py net.addLink(c0, s2, bw=20, delay='10ms')
<mininet.link.Link object at 0x7f23928170d0>
mininet> nodes
available nodes are:
c0 h1 h2 h3 h4 s1 s2
mininet> xterm h1 h2
Error: Cannot connect to display
Error: Cannot connect to display
mininet>
28°C
Haze
Search
ENG
IN
15:33
07-02-2023


Ubuntu1 [Running] - Oracle VM VirtualBox
Activities
Terminal
Feb 7 15:22
root@Ubuntu1: ~
root@Ubuntu1: /
csg4787@Ubuntu1: ~/Desktop/Networking
root@Ubuntu1: ~
c0 h1 h2 s1
mininet> net=Mininet()
h1 h1-eth0:s1-eth1
h2 h2-eth0:s1-eth2
s1 lo: s1-eth1:h1-eth0 s1-eth2:h2-eth0
c0
mininet> h1 = net.addHost('h1')
bash: syntax error near unexpected token `('
mininet> net.addHost('h1')
h1 h1-eth0:s1-eth1
h2 h2-eth0:s1-eth2
s1 lo: s1-eth1:h1-eth0 s1-eth2:h2-eth0
c0
mininet> net.addHost('h3')
h1 h1-eth0:s1-eth1
h2 h2-eth0:s1-eth2
s1 lo: s1-eth1:h1-eth0 s1-eth2:h2-eth0
c0
mininet> nodes
available nodes are:
c0 h1 h2 s1
mininet> nodes.addHost('h1')
available nodes are:
c0 h1 h2 s1
mininet> self.addHost('h3')
*** Unknown command: self.addHost('h3')
mininet> py net.addHost('h3')
<Host h3: pid=4741>
mininet> nodes
available nodes are:
c0 h1 h2 h3 s1
mininet> py net.addHost('h4')
<Host h4: pid=4767>
mininet> py net.addSwitch('s2')
<OVSSwitch s2: lo:127.0.0.1 pid=4798>
mininet> nodes
available nodes are:
c0 h1 h2 h3 h4 s1 s2
mininet> py net.addLink(h1, s1, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f29cee92858>
mininet> py net.addLink(h2, s1, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f29cee92990>
mininet> py net.addLink(h3, s2, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f29cee92ad0>
mininet> py net.addLink(h4, s2, bw=10, delay='10ms')
<mininet.link.Link object at 0x7f29cee92c50>
mininet> py net.addLink(s1, s2, bw=20, delay='20ms')
<mininet.link.Link object at 0x7f29cee92dd0>
mininet> nodes
available nodes are:
c0 h1 h2 h3 h4 s1 s2
mininet> py net.addLink(s1, s2, bw=20, delay='10ms')
28°C
Haze
Search
ENG
IN
15:22
07-02-2023