1. The output of pingall shows that all of the pings failed, which is the expected behavior, since ICMP traffic should be blocked by the firewall. All pings show "X" as a result, meaning 100% of packets were dropped. Below is a screenshot of my output:

```
mininet@mininet-vm: ~ _ _ x

File Edit Tabs Help

mininet@mininet-vm:~$ sudo python ~/lab3.py
mininet> pingall

*** Ping: testing ping reachability

h1 -> X X X

h2 -> X X X

h3 -> X X X

h4 -> X X X

*** Results: 100% dropped (0/12 received)

mininet>

### Results: 100% dropped (0/12 received)
```

2. After I generated some TCP traffic using iperf, I immediately ran dpctl dumpflows to show the active flow entries installed in the switch before they expire due to the idle_timeout or hard_timeout specified in my of_flow_mod (idle_timeout = 10, hard_timeout = 30). Below is a screenshot of my output:

```
File Edit Tabs Help

mininet> iperf hl h4

*** Iperf: testing TCP bandwidth between hl and h4

*** Results: ['31.4 Gbits/sec', '31.5 Gbits/sec']

mininet> iperf hl h3

*** Iperf: testing TCP bandwidth between hl and h3

*** Results: ['30.3 Gbits/sec', '30.3 Gbits/sec']

mininet> dpctl dump-flows

*** s1

NXST_FLOW reply (xid=0x4):

cookie=0x0, duration=17.434s, table=0, n_packets=1556213, n_bytes=38737644506, idle_timeout=10, hard_timeout=30, idle_age=2, tcp actions=FLOOD

cookie=0x0, duration=1.958s, table=0, n_packets=2, n_bytes=84, idle_timeout=10, hard_timeout=30, idle_age=1, arp actions=FLOOD

mininet>
```

3. The iperf test between h1 and h4 was successful, with high bandwidth rates, which indicates that my firewall is allowing TCP traffic. Below is a screenshot of my output:

