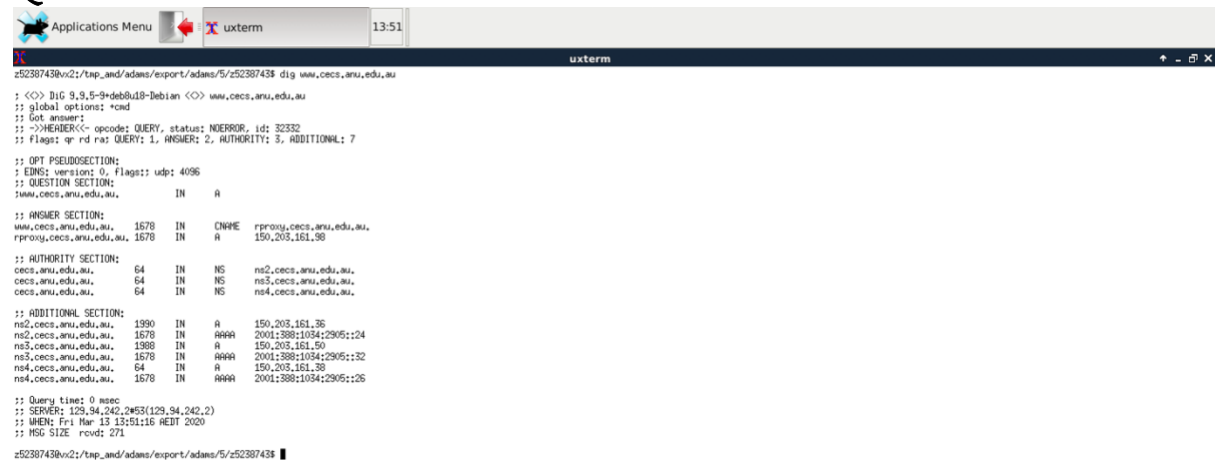


Exercise 3

Question 1:



```
z5238743@v2:/tmp_and/adams/export/adams/5/z5238743$ dig www.cecs.anu.edu.au
; <<> Dig 9.9.5-9-debian <<> www.cecs.anu.edu.au
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 32332
;; Flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 3, ADDITIONAL: 7
;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;www.cecs.anu.edu.au.      IN      A
;; ANSWER SECTION:
www.cecs.anu.edu.au.      1678    IN      CNAME   rproxy.cecs.anu.edu.au.
rproxy.cecs.anu.edu.au.  1678    IN      A       150.203.161.98
;; AUTHORITY SECTION:
cecs.anu.edu.au.          64      IN      NS       ns2.cecs.anu.edu.au.
cecs.anu.edu.au.          64      IN      NS       ns3.cecs.anu.edu.au.
cecs.anu.edu.au.          64      IN      NS       ns4.cecs.anu.edu.au.
;; ADDITIONAL SECTION:
ns2.cecs.anu.edu.au.      1980    IN      A       150.203.161.30
ns2.cecs.anu.edu.au.      1678    IN      AAAA    2001:388:1034:2905::24
ns3.cecs.anu.edu.au.      1988    IN      A       150.203.161.50
ns3.cecs.anu.edu.au.      1678    IN      AAAA    2001:388:1034:2905::32
ns4.cecs.anu.edu.au.      64      IN      A       150.203.161.30
ns4.cecs.anu.edu.au.      1678    IN      AAAA    2001:388:1034:2905::26
;; Query time: 0 msec
;; SERVER: 129.94.242.2#53(129.94.242.2)
;; WHEN: Fri Mar 13 13:51:16 HEDT 2020
;; MSG SIZE  rcvd: 271

z5238743@v2:/tmp_and/adams/export/adams/5/z5238743$
```

Figure 3.1

From figure 3.1, the IP address of www.cecs.anu.edu.au is 150.203.161.98. type of A DNS query is sent to get this answer

Question 2:

From figure 3.1, the canonical name for the CECS ANU web server is rproxy.cecs.anu.edu.au. The reason is that host aliasing which exist are easy to help human remember, however, host aliasing doesn't have host detailed information.

Question 3:

From figure 3.1, the authority section contains NS Resources Record(RR) and the type is NS, The Name is cecs.anu.edu.au which is a domain name. The Value is ns2.cecs.anu.edu.au, ns3.cecs.anu.edu.au, ns4.cecs.anu.edu.au, all of which are three authoritative name servers. The additional section contains three IP address for three domain servers and the type is A. Besides, type of AAAA are for IPV6 addresses.

Question 4:

From figure 3.1, the IP address of the local nameserver for your machine is 129.94.242.2

Question 5:

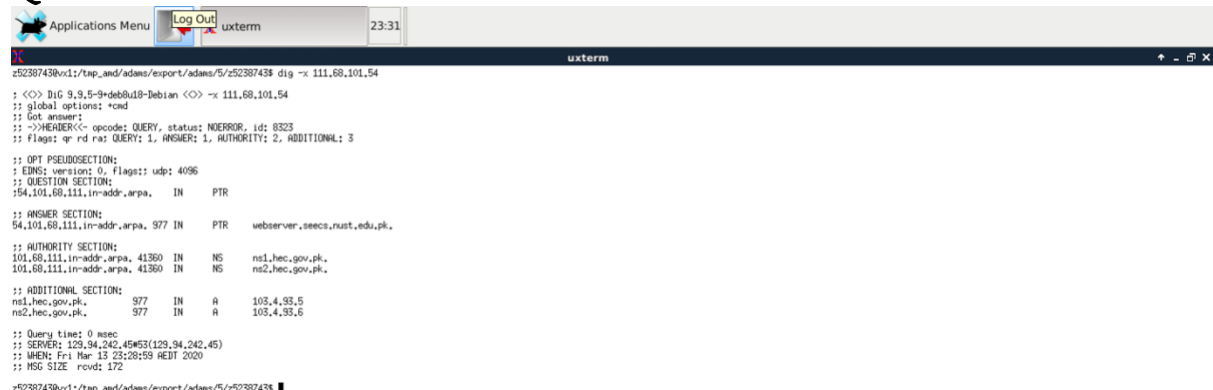


```
Applications Menu [Log Out] uxterm 22:36
z52387438v1:/tap_and/adams/export/adams/5/z52387438 dig cecs.anu.edu.au NS
; <<> Dig 9.9.9-9-deb@8-hebian <> cecs.anu.edu.au NS
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 23783
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 7
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;cecs.anu.edu.au.      IN      NS
;; ANSWER SECTION:
cecs.anu.edu.au.      300     IN      NS      ns4.cecs.anu.edu.au.
cecs.anu.edu.au.      300     IN      NS      ns2.cecs.anu.edu.au.
cecs.anu.edu.au.      300     IN      NS      ns3.cecs.anu.edu.au.
;; ADDITIONAL SECTION:
ns2.cecs.anu.edu.au.  3352    IN      A        150.203.161.36
ns2.cecs.anu.edu.au.  1963    IN      AAAA     2001:388:1034:2905::24
ns3.cecs.anu.edu.au.  2352    IN      A        150.203.161.50
ns3.cecs.anu.edu.au.  2010    IN      AAAA     2001:388:1034:2905::32
ns4.cecs.anu.edu.au.  2810    IN      A        150.203.161.38
ns4.cecs.anu.edu.au.  2910    IN      AAAA     2001:388:1034:2905::26
;; Query time: 33 msec
;; SERVER: 129.34.242.45#53(129.34.242.45)
;; WHEN: Fri Mar 13 22:36:36 AEDT 2020
;; MSG SIZE rcvd: 230
z52387438v1:/tap_and/adams/export/adams/5/z52387438
```

Figure 3.2

From figure 3.2, the DNS nameservers for the “cecs.anu.edu.au” domain are ns4.cecs.anu.edu.au, ns2.cecs.anu.edu.au and ns3.cecs.anu.edu.au. Their IP addresses are 150.203.161.36 , 150.203.161.50 and 150.203.161.38 respectively. The type of DNS query is sent to obtain this information is NS.

Question 6:



```
Applications Menu [Log Out] uxterm 23:31
z52387438v1:/tap_and/adams/export/adams/5/z52387438 dig -x 111.68.101.54
; <<> Dig 9.9.9-9-deb@8-hebian <> -x 111.68.101.54
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 8323
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 2, ADDITIONAL: 3
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;54.101.68.111.in-addr.arpa. IN PTR
;; ANSWER SECTION:
54.101.68.111.in-addr.arpa. 977 IN PTR webserver.seecs.rust.edu.pk.
;; AUTHORITY SECTION:
101.68.111.in-addr.arpa. 41360 IN NS ns1.hec.gov.pk.
101.68.111.in-addr.arpa. 41360 IN NS ns2.hec.gov.pk.
;; ADDITIONAL SECTION:
ns1.hec.gov.pk.      977     IN      A        103.4.93.5
ns2.hec.gov.pk.      977     IN      A        103.4.93.6
;; Query time: 0 msec
;; SERVER: 129.34.242.45#53(129.34.242.45)
;; WHEN: Fri Mar 13 23:38:59 AEDT 2020
;; MSG SIZE rcvd: 172
z52387438v1:/tap_and/adams/export/adams/5/z52387438
```

Figure 3.3

From figure 3.3, the DNS name are webserver.seecs.nust.edu.pk
 Type of DNS query is sent to obtain this information are reverse query.

Question 7:

```

Applications Menu  uxterm  15:09
z52387438@v5: /tmp_and/adams/export/adams/5/z52387438$ dig @129.94.242.33 yahoo.com MX
; <>> Dig 9.9.5-9+deb8u8-Debian <>> @129.94.242.33 yahoo.com MX
; (1 server found)
; global options: +cmd
; Got answer:
; -->HEADER<-- opcode: QUERY, status: NOERROR, id: 13407
; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 5, ADDITIONAL: 10
; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
; QUESTION SECTION:
; yahoo.com.                IN      MX
;
; ANSWER SECTION:
; yahoo.com.                456     IN      MX      1 mta5.am0.yahoodns.net.
; yahoo.com.                456     IN      MX      1 mta6.am0.yahoodns.net.
; yahoo.com.                456     IN      MX      1 mta7.am0.yahoodns.net.
;
; AUTHORITY SECTION:
; yahoo.com.                11588   IN      NS       ns3.yahoo.com.
; yahoo.com.                11588   IN      NS       ns5.yahoo.com.
; yahoo.com.                11588   IN      NS       ns4.yahoo.com.
; yahoo.com.                11588   IN      NS       ns1.yahoo.com.
; yahoo.com.                11588   IN      NS       ns2.yahoo.com.
;
; ADDITIONAL SECTION:
; ns1.yahoo.com.            331019  IN      A        68.180.131.16
; ns1.yahoo.com.            97354   IN      AAAA     2001:4980:130::1001
; ns2.yahoo.com.            286221  IN      A        69.142.255.16
; ns2.yahoo.com.            138906  IN      AAAA     2001:4980:140::1002
; ns3.yahoo.com.            498     IN      A        27.123.42.42
; ns3.yahoo.com.            499     IN      AAAA     2001:4980:103f:1f8::1003
; ns4.yahoo.com.            432366  IN      A        98.139.11.157
; ns4.yahoo.com.            84643   IN      A        202.165.37.53
; ns5.yahoo.com.            11824   IN      AAAA     2001:4980:1f60::53
;
; Query time: 0 msec
; SERVER: 129.94.242.33#53(129.94.242.33)
; WHEN: Sat Mar 14 15:06:59 AEDT 2020
; MSG SIZE rcvd: 399
z52387438@v5: /tmp_and/adams/export/adams/5/z52387438$
  
```

Figure 3.4

From figure 3.4, I don't get an authoritative answer, because the response that show in flags doesn't have aa which represent the authoritative answer. This is because this server has authority for cse.unsw.edu.au domain and not for yahoo domain.

Question 8:

```
Applications Menu | uxterm | 15:43
uxterm
z5238743@v7:/tmp_and/adams/export/adams/5/z5238743$ dig @ns2.cecs.anu.edu.au yahoo.com MX
; <> DiG 9.9.5-9-deb8u19-Debian <> @ns2.cecs.anu.edu.au yahoo.com MX
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: REFUSED, id: 40640
;; Flags: qr rd QUERY, 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;yahoo.com.                IN      MX

;; Query time: 8 msec
;; SERVER: 150.203.161.36#53(150.203.161.36)
;; WHEN: Sat Mar 14 15:43:16 AEDT 2020
;; MSG SIZE rcvd: 38

z5238743@v7:/tmp_and/adams/export/adams/5/z5238743$
```

Figure 3.5

From figure 3.5, I don't get a response. The warning: recursion requested but not available. The reason may be these nameservers don't reply to DNS queries that sent from devices that are not part of ANU network.

Question 9:

```
Applications Menu | uxterm | 16:07
uxterm
z5238743@v7:/tmp_and/adams/export/adams/5/z5238743$ dig @ns2.yahoo.com yahoo.com MX
; <> DiG 9.9.5-9-deb8u19-Debian <> @ns2.yahoo.com yahoo.com MX
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 61669
;; Flags: qr aa rd: QUERY, 1, ANSWER: 3, AUTHORITY: 5, ADDITIONAL: 10
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1272
;; QUESTION SECTION:
;yahoo.com.                IN      MX

;; ANSWER SECTION:
yahoo.com.      1800    IN      MX      1 mta7.am0.yahoodns.net.
yahoo.com.      1800    IN      MX      1 mta5.am0.yahoodns.net.
yahoo.com.      1800    IN      MX      1 mta6.am0.yahoodns.net.

;; AUTHORITY SECTION:
yahoo.com.      172800  IN      NS       ns5.yahoo.com.
yahoo.com.      172800  IN      NS       ns1.yahoo.com.
yahoo.com.      172800  IN      NS       ns4.yahoo.com.
yahoo.com.      172800  IN      NS       ns2.yahoo.com.
yahoo.com.      172800  IN      NS       ns3.yahoo.com.

;; ADDITIONAL SECTION:
ns1.yahoo.com.  1209600 IN      A        68.180.131.16
ns2.yahoo.com.  1209600 IN      A        68.142.255.16
ns3.yahoo.com.  1800     IN      A        27.123.42.42
ns4.yahoo.com.  1209600 IN      A        86.135.11.157
ns5.yahoo.com.  86400   IN      A        202.165.37.53
ns1.yahoo.com.  86400   IN      AAAA     2001:4980:130::1001
ns2.yahoo.com.  86400   IN      AAAA     2001:4980:140::1002
ns3.yahoo.com.  1800    IN      AAAA     2406:8600:f03f:1f8::1003
ns5.yahoo.com.  86400   IN      AAAA     2406:2000:ff60:53

;; Query time: 149 msec
;; SERVER: 68.142.255.16#53(68.142.255.16)
;; WHEN: Sat Mar 14 16:07:43 AEDT 2020
;; MSG SIZE rcvd: 390

z5238743@v7:/tmp_and/adams/export/adams/5/z5238743$
```

Figure 3.6

From figure 3.6, the type of DNS query is sent to obtain this information is MX

Question 10:

```

z5238743@v5: /tmp/adams/export/adams/5/z5238743$ dig . NS

;<> DiG 9.9.5-9-deb8u8-Debian <> . NS
;; global options: +cmd
;; Got answer:
;;->HEADER<- opcode: QUERY, status: NOERROR, id: 41548
;; flags: qr rd ra: QUERY: 1, ANSWER: 13, AUTHORITY: 0, ADDITIONAL: 27

;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
; .                IN      NS

;; ANSWER SECTION:
.                66298   IN      NS      f.root-servers.net.
.                66298   IN      NS      j.root-servers.net.
.                66298   IN      NS      d.root-servers.net.
.                66298   IN      NS      e.root-servers.net.
.                66298   IN      NS      b.root-servers.net.
.                66298   IN      NS      k.root-servers.net.
.                66298   IN      NS      g.root-servers.net.
.                66298   IN      NS      a.root-servers.net.
.                66298   IN      NS      h.root-servers.net.
.                66298   IN      NS      i.root-servers.net.
.                66298   IN      NS      a.root-servers.net.
.                66298   IN      NS      c.root-servers.net.
.                66298   IN      NS      l.root-servers.net.

;; ADDITIONAL SECTION:
a.root-servers.net. 156848 IN A      198.41.0.4
a.root-servers.net. 282869 IN AAAA   2001:503:ba3e::2:30
b.root-servers.net. 225466 IN A      199.9.14.201
b.root-servers.net. 17515 IN AAAA   2001:500:200::b
c.root-servers.net. 208083 IN A      192.33.4.12
c.root-servers.net. 17515 IN AAAA   2001:500:2::c
d.root-servers.net. 71463 IN A      199.7.91.13
d.root-servers.net. 58555 IN AAAA   2001:500:2d::d
e.root-servers.net. 50116 IN A      192.203.230.10
e.root-servers.net. 58555 IN AAAA   2001:500:a8::e
f.root-servers.net. 300492 IN A      192.5.5.241
f.root-servers.net. 508666 IN AAAA   2001:500:2f::f
g.root-servers.net. 213361 IN A      192.112.36.4
g.root-servers.net. 189575 IN AAAA   2001:500:12::d
h.root-servers.net. 305099 IN A      198.57.190.53
h.root-servers.net. 510920 IN AAAA   2001:500:11::53
i.root-servers.net. 388472 IN A      192.36.148.17
i.root-servers.net. 57318 IN AAAA   2001:7fe::53
j.root-servers.net. 512380 IN A      192.58.128.30
j.root-servers.net. 63449 IN AAAA   2001:503:c27::2:30
k.root-servers.net. 300324 IN A      193.0.14.129
k.root-servers.net. 57317 IN AAAA   2001:7fd::1
l.root-servers.net. 189565 IN A      199.7.83.42
l.root-servers.net. 58555 IN AAAA   2001:500:9f::42
a.root-servers.net. 44852 IN A      202.12.27.35
a.root-servers.net. 17515 IN AAAA   2001:dc3::35

;; Query time: 0 msec
;; SERVER: 129.94.242.45#53(129.94.242.45)
;; WHEN: Sun Mar 15 00:01:11 AEDT 2020
;; MSG SIZE rcvd: 811
  
```

Figure 3.7

I find the authoritative name server for the "au." Domain of this nameserver is 198.41.0.4 and assuming that I sit in drum02.

```
Applications Menu  uxterm 00:29
z52387438v5:/tap_and/adams/export/adams/5/z52387438 dig @198.41.0.4 drum02.cse.unsw.edu.au NS
; <> Dig 9.9.5-9-deb8d8-Debian <> @198.41.0.4 drum02.cse.unsw.edu.au NS
; (1 server found)
; global options: +cd
; Got answer:
; -->HEADER<-- opcode: QUERY, status: NOERROR, id: 10352
; Flags: qr rd QUERY: 1, ANSWER: 0, AUTHORITY: 9, ADDITIONAL: 19
; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;drum02.cse.unsw.edu.au.      IN      NS

;; AUTHORITY SECTION:
au.      172800 IN      NS      a.au.
au.      172800 IN      NS      d.au.
au.      172800 IN      NS      q.au.
au.      172800 IN      NS      t.au.
au.      172800 IN      NS      s.au.
au.      172800 IN      NS      r.au.
au.      172800 IN      NS      n.au.
au.      172800 IN      NS      a.au.
au.      172800 IN      NS      c.au.

;; ADDITIONAL SECTION:
a.au.    172800 IN      A      156.154.100.24
d.au.    172800 IN      A      2001:502:2da::24
q.au.    172800 IN      A      162.159.25.38
t.au.    172800 IN      A      2400:cb00:2049::a29f:1305
s.au.    172800 IN      A      65.22.136.1
r.au.    172800 IN      A      2a01:2840:b0::1
n.au.    172800 IN      A      65.22.136.1
a.au.    172800 IN      A      2a01:2840:c0::1
c.au.    172800 IN      A      65.22.136.1
a.au.    172800 IN      A      65.22.137.1
d.au.    172800 IN      A      2a01:2840:b0::1
q.au.    172800 IN      A      156.154.101.24
t.au.    172800 IN      A      2001:502:ad9::24
s.au.    172800 IN      A      58.85.254.73
r.au.    172800 IN      A      2407:6e00:254:506::73
n.au.    172800 IN      A      162.159.24.179
a.au.    172800 IN      A      2400:cb00:2049::a29f:18b5
c.au.    172800 IN      A      2400:cb00:2049::a29f:18b5

;; Query time: 119 msec
;; SERVER: 198.41.0.4#53(198.41.0.4)
;; WHEN: Sun Mar 15 00:28:59 EDT 2020
;; MSG SIZE rcvd: 591

z52387438v5:/tap_and/adams/export/adams/5/z52387438
```

Figure 3.8

Then I refer to the .au nameservers, so query one of them:

```
Applications Menu  uxterm 00:46
z52387438v5:/tap_and/adams/export/adams/5/z52387438 dig @156.154.100.24 drum02.cse.unsw.edu.au NS
; <> Dig 9.9.5-9-deb8d8-Debian <> @156.154.100.24 drum02.cse.unsw.edu.au NS
; (1 server found)
; global options: +cd
; Got answer:
; -->HEADER<-- opcode: QUERY, status: NOERROR, id: 1275
; Flags: qr rd QUERY: 1, ANSWER: 0, AUTHORITY: 4, ADDITIONAL: 9
; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;drum02.cse.unsw.edu.au.      IN      NS

;; AUTHORITY SECTION:
edu.au.  86400 IN      NS      s.au.
edu.au.  86400 IN      NS      r.au.
edu.au.  86400 IN      NS      t.au.
edu.au.  86400 IN      NS      q.au.

;; ADDITIONAL SECTION:
q.au.    86400 IN      A      65.22.136.1
r.au.    86400 IN      A      65.22.137.1
s.au.    86400 IN      A      65.22.136.1
t.au.    86400 IN      A      65.22.136.1
a.au.    86400 IN      A      2a01:2840:b0::1
q.au.    86400 IN      A      2a01:2840:b0::1
r.au.    86400 IN      A      2a01:2840:b0::1
s.au.    86400 IN      A      2a01:2840:c0::1
t.au.    86400 IN      A      2a01:2840:c0::1

;; Query time: 15 msec
;; SERVER: 156.154.100.24#53(156.154.100.24)
;; WHEN: Sun Mar 15 00:46:03 EDT 2020
;; MSG SIZE rcvd: 291

z52387438v5:/tap_and/adams/export/adams/5/z52387438
```

Figure 3.8

Then I refer to the edu.au nameservers, so query one of them:

```
Applications Menu | uxterm | 21:44
z5238743@v2: /tmp_and/adams/export/adams/5/z5238743$ dig @65.22.196.1 drum02.cse.unsw.edu.au NS
; <> DiG 9.9.5-9-deb8u18-Debian <> @65.22.196.1 drum02.cse.unsw.edu.au NS
; (1 server found)
; global options: +cmd
; Got answer:
; ->HEADER<- opcode: QUERY, status: NXERROR, id: 43436
; flags: qr rd: QUERY, 1, ANSWER: 0, AUTHORITY: 3, ADDITIONAL: 6
; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;drum02.cse.unsw.edu.au.          IN      NS

;; AUTHORITY SECTION:
unsw.edu.au.      900    IN      NS      ns2.unsw.edu.au.
unsw.edu.au.      900    IN      NS      ns3.unsw.edu.au.
unsw.edu.au.      900    IN      NS      ns1.unsw.edu.au.

;; ADDITIONAL SECTION:
ns1.unsw.edu.au.  900    IN      A       129.94.0.192
ns2.unsw.edu.au.  900    IN      A       129.94.0.193
ns3.unsw.edu.au.  900    IN      A       192.155.82.178
ns1.unsw.edu.au.  900    IN      AAAA    2001:388c:c135:11
ns2.unsw.edu.au.  900    IN      AAAA    2001:388c:c135:12

;; Query time: 59 msec
;; SERVER: 65.22.196.1#53(65.22.196.1)
;; WHEN: Sun Mar 15 21:44:02 EDT 2020
;; MSG SIZE rcvd: 209

z5238743@v2: /tmp_and/adams/export/adams/5/z5238743$
```

Figure 3.9

Then I refer to the edu.au nameservers, so query one of them:

```
Applications Menu | uxterm | 21:55
z5238743@v3: /tmp_and/adams/export/adams/5/z5238743$ dig @129.94.0.192 drum02.cse.unsw.edu.au NS
; <> DiG 9.9.5-9-deb8u18-Debian <> @129.94.0.192 drum02.cse.unsw.edu.au NS
; (1 server found)
; global options: +cmd
; Got answer:
; ->HEADER<- opcode: QUERY, status: NXERROR, id: 21181
; flags: qr rd: QUERY, 1, ANSWER: 0, AUTHORITY: 2, ADDITIONAL: 5
; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;drum02.cse.unsw.edu.au.          IN      NS

;; AUTHORITY SECTION:
cse.unsw.edu.au.  10800  IN      NS      maestro.orchestra.cse.unsw.edu.au.
cse.unsw.edu.au.  10800  IN      NS      beethoven.orchestra.cse.unsw.edu.au.

;; ADDITIONAL SECTION:
beethoven.orchestra.cse.unsw.edu.au. 10800 IN A 129.94.172.11
beethoven.orchestra.cse.unsw.edu.au. 10800 IN A 129.94.208.3
beethoven.orchestra.cse.unsw.edu.au. 10800 IN A 129.94.242.2
maestro.orchestra.cse.unsw.edu.au. 10800 IN A 129.94.242.33

;; Query time: 4 msec
;; SERVER: 129.94.0.192#53(129.94.0.192)
;; WHEN: Sun Mar 15 21:54:11 EDT 2020
;; MSG SIZE rcvd: 171

z5238743@v3: /tmp_and/adams/export/adams/5/z5238743$
```

Figure 3.9

NOW UNSW CSE nameservers has been referred. Then I use type A query, so query one of them. From Figure 3.10, the answer is 129.94.209.32

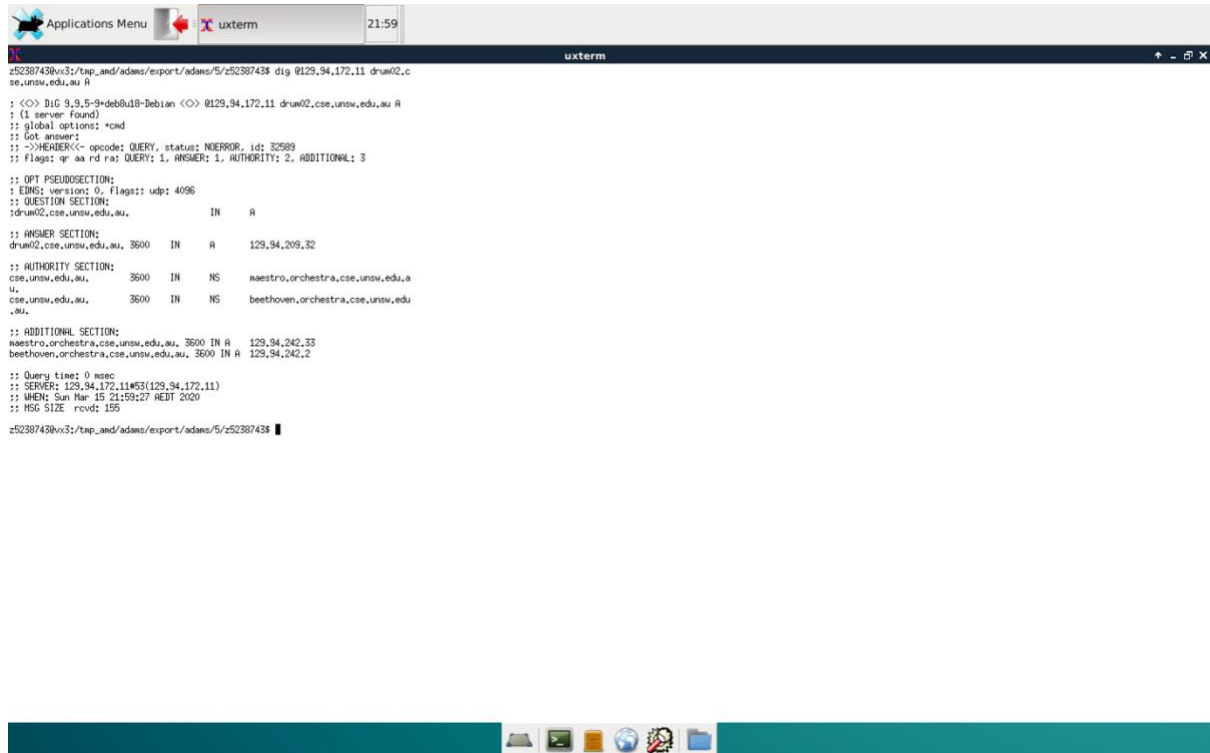


Figure 3.10

Question 11:

One physical machine can have several names and/or IP addresses associated with it. A machine can have several network interface which can have several IP addresses associated with it. Besides IP address can have few hostname.

Exercise 4