

Exercise 3.1:

The screenshot shows a Wireshark capture of an HTTP transaction. The packet list pane displays four packets:

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html HTTP/1.1
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/html)

The packet details pane for packet 12 shows the following structure:

- Frame 12: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits)
- Ethernet II, Src: LinksysG_da:af:73 (00:06:25:da:af:73), Dst: Dell_4f:36:23 (00:08:74:4f:36:23)
- Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.102
- Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 1, Ack: 502, Len: 385
- Hypertext Transfer Protocol
- Line-based text data: text/html (3 lines)

The packet bytes pane shows the raw data in hexadecimal and ASCII:

```
0000 00 08 74 4f 36 23 00 06 25 da af 73 08 00 45 00  ..t06#...%...s...E-
0010 01 a9 b6 fa 40 00 37 06 53 c2 80 77 f5 0c c0 a8  ...@-7- S-w-...
0020 01 66 00 50 10 1f 6b a6 54 92 f5 32 66 a7 50 18  -f-P...k- T--2f-P-
0030 19 20 7a 1c 00 00 48 54 54 50 2f 31 2e 31 20 32  - z---HT TP/1.1 2
0040 30 30 20 4f 4b 0d 0a 44 61 74 65 3a 20 54 75 65  00 OK-D ate: Tue
0050 2c 20 32 33 20 53 65 70 20 32 30 30 33 20 30 35  , 23 Sep 2003 05
0060 3a 32 39 3a 35 30 20 47 4d 54 0d 0a 53 65 72 76  :29:50 G MT--Serv
0070 65 72 3a 20 41 70 61 63 68 65 2f 32 2e 30 2e 34  er: Apac he/2.0.4
```

The status code is 200, the phrase from the server is “OK”.

Exercise 3.2:

The screenshot shows the same Wireshark capture as before, but with the details pane expanded for packet 12 to show the full HTTP response:

- Transmission Control Protocol, Src Port: 80, Dst Port: 4127, Seq: 1, Ack: 502, Len: 385
- Hypertext Transfer Protocol
 - HTTP/1.1 200 OK\r\n
 - Date: Tue, 23 Sep 2003 05:29:50 GMT\r\n
 - Server: Apache/2.0.40 (Red Hat Linux)\r\n
 - Last-Modified: Tue, 23 Sep 2003 05:29:00 GMT\r\n
 - ETag: "1bfed-49-79d5bf00"\r\n
 - Accept-Ranges: bytes\r\n

The packet bytes pane shows the raw data in hexadecimal and ASCII:

```
0090 29 0d 0a 4c 61 73 74 2d 4d 6f 64 69 66 69 65 64  )..Last-Modified
00a0 3a 20 54 75 65 2c 20 32 33 20 53 65 70 20 32 30  : Tue, 23 Sep 20
00b0 30 33 20 30 35 3a 32 39 3a 30 30 20 47 4d 54 0d  03 05:29 :00 GMT-
00c0 0a 45 54 61 67 3a 20 22 31 62 66 65 64 2d 34 39  -ETag: " 1bfed-49
00d0 2d 37 39 64 35 62 66 30 30 22 0d 0a 41 63 63 65  -79d5bf0 0"--Acce
00e0 70 74 2d 52 61 6e 67 65 73 3a 20 62 79 74 65 73  pt-Range s: bytes
00f0 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68  ..Conten t-Length
0100 3a 20 37 33 0d 0a 4b 65 65 70 2d 41 6c 69 76 65  : 73--Ke ep-Alive
```

The last-modified time is Tuesday, 23 September 2003 05:29:00 GMT. It also contains a Date header. The difference between them is: Last-modified header is the time html file resources was modified, and Date is the time when the response packet was generated.

Exercise 3.3:

The screenshot shows a Wireshark capture of an HTTP response. The packet list at the top shows four packets: a GET request for /ethereal-labs/lab2-1.html (555 bytes), a 200 OK response (439 bytes), a GET request for /favicon.ico (541 bytes), and a 404 Not Found response (1395 bytes). The selected packet is the 200 OK response. The packet details pane shows the response structure: ETag, Accept-Ranges, Content-Length (73 bytes), Keep-Alive (timeout=10, max=100), Connection (Keep-Alive), and Content-Type (text/html; charset=ISO-8859-1). The packet bytes pane shows the raw data, with the response body starting at offset 120.

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html HTTP/1.1
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/html)

```

Etag: "1bfed-49-79d5bf00"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 73\r\n
Keep-Alive: timeout=10, max=100\r\n
Connection: Keep-Alive\r\n
Content-Type: text/html; charset=ISO-8859-1\r\n
\r\n
[HTTP response 1/2]
0120 78 3d 31 30 30 0d 0a 43 6f 6e 6e 65 63 74 69 6f  x=100..C onnectio
0130 6e 3a 20 4b 65 65 70 2d 41 6c 69 76 65 0d 0a 43  n: Keep- Alive..C
0140 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 74 65 78  ontent-T ype: tex
0150 74 2f 68 74 6d 6c 3b 20 63 68 61 72 73 65 74 3d  t/html; charset=
0160 49 53 4f 2d 38 38 35 39 2d 31 0d 0a 0d 0a 3c 68  ISO-8859 -1...<h
0170 74 6d 6c 3e 0a 43 6f 6e 67 72 61 74 75 6c 61 74  tml>.Con gratulat
0180 69 6f 6e 73 2e 20 20 59 6f 75 27 76 65 20 64 6f  ions. Y ou've do
0190 77 6e 6c 6f 61 64 65 64 20 74 68 65 20 66 69 6c  wnloaded the fil

```

The Connection header is Keep-Alive, it is persistent. It means the connection will stay open until the browser or the server drop the connection. If its non-persistent, it will show “Connection: close”.

Exercise 3.4:

73 bytes of content are being returned to the browser. (The same screenshot as above)

Exercise 3.5:

The screenshot shows a Wireshark capture of an HTTP response. The packet list at the top shows four packets: a GET request for /ethereal-labs/lab2-1.html (555 bytes), a 200 OK response (439 bytes), a GET request for /favicon.ico (541 bytes), and a 404 Not Found response (1395 bytes). The selected packet is the 200 OK response. The packet details pane shows the response structure: ETag, Accept-Ranges, Content-Length (73 bytes), Keep-Alive (timeout=10, max=100), Connection (Keep-Alive), and Content-Type (text/html; charset=ISO-8859-1). The packet bytes pane shows the raw data, with the response body starting at offset 120.

No.	Time	Source	Destination	Protocol	Length	Info
10	4.694850	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-1.html HTTP/1.1
12	4.718993	128.119.245.12	192.168.1.102	HTTP	439	HTTP/1.1 200 OK (text/html)
13	4.724332	192.168.1.102	128.119.245.12	HTTP	541	GET /favicon.ico HTTP/1.1
14	4.750366	128.119.245.12	192.168.1.102	HTTP	1395	HTTP/1.1 404 Not Found (text/html)

```

[Next response in frame: 14]
[Request URI: http://gaia.cs.umass.edu/favicon.ico]
File Data: 73 bytes
Line-based text data: text/html (3 lines)
<html>\n
Congratulations. You've downloaded the file lab2-1.html!\n
</html>\n
0130 6e 3a 20 4b 65 65 70 2d 41 6c 69 76 65 0d 0a 43  n: Keep- Alive..C
0140 6f 6e 74 65 6e 74 2d 54 79 70 65 3a 20 74 65 78  ontent-T ype: tex
0150 74 2f 68 74 6d 6c 3b 20 63 68 61 72 73 65 74 3d  t/html; charset=
0160 49 53 4f 2d 38 38 35 39 2d 31 0d 0a 0d 0a 3c 68  ISO-8859 -1...<h
0170 74 6d 6c 3e 0a 43 6f 6e 67 72 61 74 75 6c 61 74  tml>.Con gratulat
0180 69 6f 6e 73 2e 20 20 59 6f 75 27 76 65 20 64 6f  ions. Y ou've do
0190 77 6e 6c 6f 61 64 65 64 20 74 68 65 20 66 69 6c  wnloaded the fil
01a0 65 20 6c 61 62 32 2d 31 2e 68 74 6d 6c 21 0a 3c  e lab2-1 .html!<

```

Text/html data is contained.

Exercise 4.1:

http-ethereal-trace-2

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
8	2.331268	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-2.html HTTP/1.1
10	2.357902	128.119.245.12	192.168.1.102	HTTP	739	HTTP/1.1 200 OK (text/html)
14	5.517390	192.168.1.102	128.119.245.12	HTTP	668	GET /ethereal-labs/lab2-2.html HTTP/1.1
15	5.540216	128.119.245.12	192.168.1.102	HTTP	243	HTTP/1.1 304 Not Modified

> Transmission Control Protocol, Src Port: 4247, Dst Port: 80, Seq: 1, Ack: 1, Len: 501

▼ Hypertext Transfer Protocol

 > GET /ethereal-labs/lab2-2.html HTTP/1.1\r\n

 > [Expert Info (Chat/Sequence): GET /ethereal-labs/lab2-2.html HTTP/1.1\r\n]

 Request Method: GET

 Request URI: /ethereal-labs/lab2-2.html

 Request Version: HTTP/1.1

 Host: gaia.cs.umass.edu\r\n

 User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.0.2) Gecko/20021120 Netscape/7.01\r\n

 Accept: text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;q=0.8,video/x-mng,image/png,image/jpeg,ima...

 Accept-Language: en-us, en;q=0.50\r\n

 Accept-Encoding: gzip, deflate, compress;q=0.9\r\n

0000 00 06 25 da af 73 00 08 74 4f 36 23 08 00 45 00 ...s...t06#...E.

0010 02 1d 02 5a 40 00 80 06 00 00 c0 a8 01 66 80 77 ...Z@...f.w

0020 f5 0c 10 97 00 50 fa 88 01 31 81 6a b3 81 50 18 ...P...1.j..P

0030 fa f0 39 a2 00 00 47 45 54 20 2f 65 74 68 65 72 ...9...GE T /ether

Look into package 8, first package the browser sent. No, it is not presented.

Exercise 4.2:

http-ethereal-trace-2

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
8	2.331268	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-2.html HTTP/1.1
10	2.357902	128.119.245.12	192.168.1.102	HTTP	739	HTTP/1.1 200 OK (text/html)
14	5.517390	192.168.1.102	128.119.245.12	HTTP	668	GET /ethereal-labs/lab2-2.html HTTP/1.1
15	5.540216	128.119.245.12	192.168.1.102	HTTP	243	HTTP/1.1 304 Not Modified

> Transmission Control Protocol, Src Port: 80, Dst Port: 4247, Seq: 1, Ack: 502, Len: 685

▼ Hypertext Transfer Protocol

 > HTTP/1.1 200 OK\r\n

 Date: Tue, 23 Sep 2003 05:35:50 GMT\r\n

 Server: Apache/2.0.40 (Red Hat Linux)\r\n

 Last-Modified: Tue, 23 Sep 2003 05:35:00 GMT\r\n

 ETag: "1bfef-173-8f4ae900"\r\n

 Accept-Ranges: bytes\r\n

0090 29 0d 0a 4c 61 73 74 2d 4d 6f 64 69 66 69 65 64 ...Last-Modified

00a0 3a 20 54 75 65 2c 20 32 33 20 53 65 70 20 32 30 ...: Tue, 23 Sep 20

00b0 30 33 20 30 35 3a 33 35 3a 30 30 20 47 4d 54 0d ...03 05:35 :00 GMT.

00c0 0a 45 54 61 67 3a 20 22 31 62 66 65 66 2d 31 37 ...ETag: " 1bfef-17

00d0 33 2d 38 66 34 61 65 39 30 30 22 0d 0a 41 63 63 ...3-8f4ae9 00"...Acc

00e0 65 70 74 2d 52 61 6e 67 65 73 3a 20 62 79 74 65 ...pt-Rang es: byte

00f0 73 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 ...s-Conte nt-Lengt

0100 68 3a 20 33 37 31 0d 0a 4b 65 65 70 2d 41 6c 69 ...h: 371.. Keep-All

Yes, it does. In Package 10, it is last modified on Tue, 23 September 2002 05:35:50 GMT.

Exercise 4.3:

http-ethereal-trace-2

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
8	2.331268	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-2.html HTTP/1.1
10	2.357902	128.119.245.12	192.168.1.102	HTTP	739	HTTP/1.1 200 OK (text/html)
14	5.517390	192.168.1.102	128.119.245.12	HTTP	668	GET /ethereal-labs/lab2-2.html HTTP/1.1
15	5.540216	128.119.245.12	192.168.1.102	HTTP	243	HTTP/1.1 304 Not Modified

```

Keep-Alive: 300\r\n
Connection: keep-alive\r\n
If-Modified-Since: Tue, 23 Sep 2003 05:35:00 GMT\r\n
If-None-Match: "1bfef-173-8f4ae900"\r\n
Cache-Control: max-age=0\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-2.html]

```

0210 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 -Connect ion: kee
0220 70 2d 61 6c 69 76 65 0d 0a 49 66 2d 4d 6f 64 69 p-alive- If-Modi
0230 66 69 65 64 2d 53 69 6e 63 65 3a 20 54 75 65 2c fied-Sin ce: Tue,
0240 20 32 33 20 53 65 70 20 32 30 30 33 20 30 35 3a 23 Sep 2003 05:
0250 33 35 3a 30 30 20 47 4d 54 0d 0a 49 66 2d 4e 6f 35:00 GM T .If-No
0260 6e 65 2d 4d 61 74 63 68 3a 20 22 31 62 66 65 66 ne-Match : "1bfef
0270 2d 31 37 33 2d 38 66 34 61 65 39 30 30 22 0d 0a -173-8f4 ae900"..
0280 43 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6d Cache-Co ntrol: m

Yes, there are if-modified-since and if-none-match headers, if-modified-since is Tue, 23 Sep 2003 05:35:00 GMT, it contains the value of a date. If-none-match is "1bfef-173-8f4ae900"\r\n, it contains the ETag value.

Exercise 4.4:

http-ethereal-trace-2

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
8	2.331268	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-2.html HTTP/1.1
10	2.357902	128.119.245.12	192.168.1.102	HTTP	739	HTTP/1.1 200 OK (text/html)
14	5.517390	192.168.1.102	128.119.245.12	HTTP	668	GET /ethereal-labs/lab2-2.html HTTP/1.1
15	5.540216	128.119.245.12	192.168.1.102	HTTP	243	HTTP/1.1 304 Not Modified

```

HTTP/1.1 304 Not Modified\r\n
> [Expert Info (Chat/Sequence): HTTP/1.1 304 Not Modified\r\n]
Response Version: HTTP/1.1
Status Code: 304
[Status Code Description: Not Modified]
Response Phrase: Not Modified
Date: Tue, 23 Sep 2003 05:35:53 GMT\r\n
Server: Apache/2.0.40 (Red Hat Linux)\r\n
Connection: Keep-Alive\r\n
Keep-Alive: timeout=10, max=99\r\n
ETag: "1bfef-173-8f4ae900"\r\n
\r\n

```

0000 00 08 74 4f 36 23 00 06 25 da af 73 08 00 45 00 ..t06#.. %..s..E
0010 00 e5 dc 88 40 00 37 06 2e f8 80 77 f5 0c c0 a8@.7. .w....
0020 01 66 00 50 10 97 81 6a b6 2e fa 88 05 8c 50 18 .f.P...jP
0030 1f 2e 89 37 00 00 48 54 54 50 2f 31 2e 31 20 33 ..7..HT TP/1.1 3

It returns 304 Not Modified, it does not explicitly return the contents of the file. It may because the local file is not modified so it does not download the file again.

Exercise 4.5:

Wireshark interface showing an HTTP GET request and its response. The packet list shows a GET request for /ethereal-labs/lab2-2.html. The packet details pane shows the response status code 200 OK and various headers including ETag: '1bfef-173-8f4ae900'. The packet bytes pane shows the raw data of the response.

No.	Time	Source	Destination	Protocol	Length	Info
8	2.331268	192.168.1.102	128.119.245.12	HTTP	555	GET /ethereal-labs/lab2-2.html HTTP/1.1
10	2.357902	128.119.245.12	192.168.1.102	HTTP	739	HTTP/1.1 200 OK (text/html)
14	5.517390	192.168.1.102	128.119.245.12	HTTP	668	GET /ethereal-labs/lab2-2.html HTTP/1.1
15	5.540216	128.119.245.12	192.168.1.102	HTTP	243	HTTP/1.1 304 Not Modified

Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Tue, 23 Sep 2003 05:35:50 GMT\r\n
Server: Apache/2.0.40 (Red Hat Linux)\r\n
Last-Modified: Tue, 23 Sep 2003 05:35:00 GMT\r\n
ETag: "1bfef-173-8f4ae900"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 371\r\n
Keep-Alive: timeout=10, max=100\r\n
Connection: Keep-Alive\r\n
Content-Type: text/html; charset=ISO-8859-1\r\n

00c0 0a 45 54 61 67 3a 20 22 31 62 66 65 66 2d 31 37 ETag: " 1bfef-17
00d0 33 2d 38 66 34 61 65 39 30 30 22 0d 0a 41 63 63 3-8f4ae9 00"..Acc
00e0 65 70 74 2d 52 61 6e 67 65 73 3a 20 62 79 74 65 ept-Rang es: byte
00f0 73 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 s..Conte nt-Lengt

The value of the ETag is "1bfef-173-84ae900"\r\n, it is an identifier for a specific version of the resources. Because the locally cached version of resource is not modified, the ETag is the same to the 1st response.

Exercise 5:

Terminal window showing a series of PING requests and responses. The terminal output shows 'Received from 127.0.0.1: PING 3334 2021-06-22 00:15:15.806802' followed by 'Reply sent.' and then a series of similar messages for PING 3335 through 3344.

```

Reply sent.
Received from 127.0.0.1: PING 3334 2021-06-22 00:15:15.806802
Reply sent.
Received from 127.0.0.1: PING 3335 2021-06-22 00:15:16.407593
Reply sent.
Received from 127.0.0.1: PING 3336 2021-06-22 00:15:16.447312
Reply sent.
Received from 127.0.0.1: PING 3337 2021-06-22 00:15:17.048098
Reply sent.
Received from 127.0.0.1: PING 3338 2021-06-22 00:15:17.648907
Reply sent.
Received from 127.0.0.1: PING 3339 2021-06-22 00:15:17.664666
Reply sent.
Received from 127.0.0.1: PING 3340 2021-06-22 00:15:17.787262
Reply sent.
Received from 127.0.0.1: PING 3341 2021-06-22 00:15:17.922879
Reply sent.
Received from 127.0.0.1: PING 3342 2021-06-22 00:15:18.523672
Reply sent.
Received from 127.0.0.1: PING 3343 2021-06-22 00:15:19.124534
Reply sent.
Received from 127.0.0.1: PING 3344 2021-06-22 00:15:19.225346
Reply sent.

```

CSE+VLAB - TigerVNC

Applications Menu | UDPClien.py (/tmp_a... | Lab2 - File Manager | Terminal | Terminal | 00:27 | z5255497

Terminal

```
File Edit View Terminal Tabs Help
ping to 127.0.0.1, seq = 3344, rtt = 98.537 ms
Minimum rtt is 22 ms
Maximum rtt is 199 ms
Average rtt is 112 ms
z5255497@vx6:/tmp_amd/kamen/export/kamen/2/z5255497/cs3331/Lab2$ python UDPClien
t.py 127.0.0.1 2048
ping to 127.0.0.1, seq = 3331, rtt = 170.511 ms
ping to 127.0.0.1, seq = 3332, rtt = 191.494 ms
ping to 127.0.0.1, seq = 3333, rtt = 79.639 ms
ping to 127.0.0.1, seq = 3334, timeout
ping to 127.0.0.1, seq = 3335, rtt = 39.672 ms
ping to 127.0.0.1, seq = 3336, timeout
ping to 127.0.0.1, seq = 3337, timeout
ping to 127.0.0.1, seq = 3338, rtt = 15.679 ms
ping to 127.0.0.1, seq = 3339, rtt = 122.507 ms
ping to 127.0.0.1, seq = 3340, rtt = 135.534 ms
ping to 127.0.0.1, seq = 3341, timeout
ping to 127.0.0.1, seq = 3342, timeout
ping to 127.0.0.1, seq = 3343, rtt = 100.707 ms
ping to 127.0.0.1, seq = 3344, rtt = 98.758 ms
Minimum rtt is 15 ms
Maximum rtt is 191 ms
Average rtt is 106 ms
z5255497@vx6:/tmp_amd/kamen/export/kamen/2/z5255497/cs3331/Lab2$
```

CSE+VLAB - TigerVNC

Applications Menu | UDPClien.py (/tmp_a... | Lab2 - File Manager | Terminal | Terminal | 00:16 | z5255497

UDPClien.py (/tmp_amd/kamen/export/kamen/2/z5255497/cs3331/Lab2) - gedit

```
File Edit View Search Tools Documents Help
UDPClien.py x
4 from datetime import datetime
5
6 serverName = sys.argv[1]
7 serverPort = int(sys.argv[2])
8 clientSocket = socket(AF_INET, SOCK_DGRAM)
9 rtt = list()
10 for seqnum in range(3331, 3345):
11     startTime = datetime.now()
12     message = "PING {} {} \n".format(seqnum, startTime)
13     clientSocket.sendto(message.encode('utf-8'), (serverName, serverPort))
14     try:
15         clientSocket.settimeout(0.6)
16         modifiedMessage, serverAddress = clientSocket.recvfrom(2048)
17         endTime = datetime.now()
18         time = (endTime - startTime).total_seconds() * 1000
19         rtt.append(time)
20         print("ping to {}, seq = {}, rtt = {} ms".format(serverName, str(seqnum), time))
21     except:
22         print("ping to {}, seq = {}, timeout".format(serverName, str(seqnum)))
23 if rtt == []:
24     print("Failed to connect")
25 else:
26     print("Minimum rtt is {} ms".format(int(min(rtt))))
27     print("Maximum rtt is {} ms".format(int(max(rtt))))
28     print("Average rtt is {} ms".format(int(sum(rtt)/len(rtt))))
29 clientSocket.close()
```

Python Tab Width: 4 Ln 28, Col 67 INS