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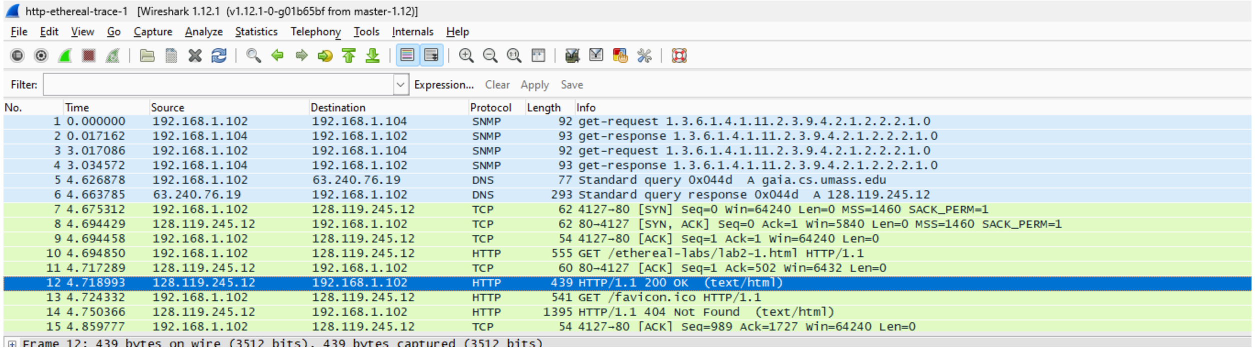
Question-01:

1)

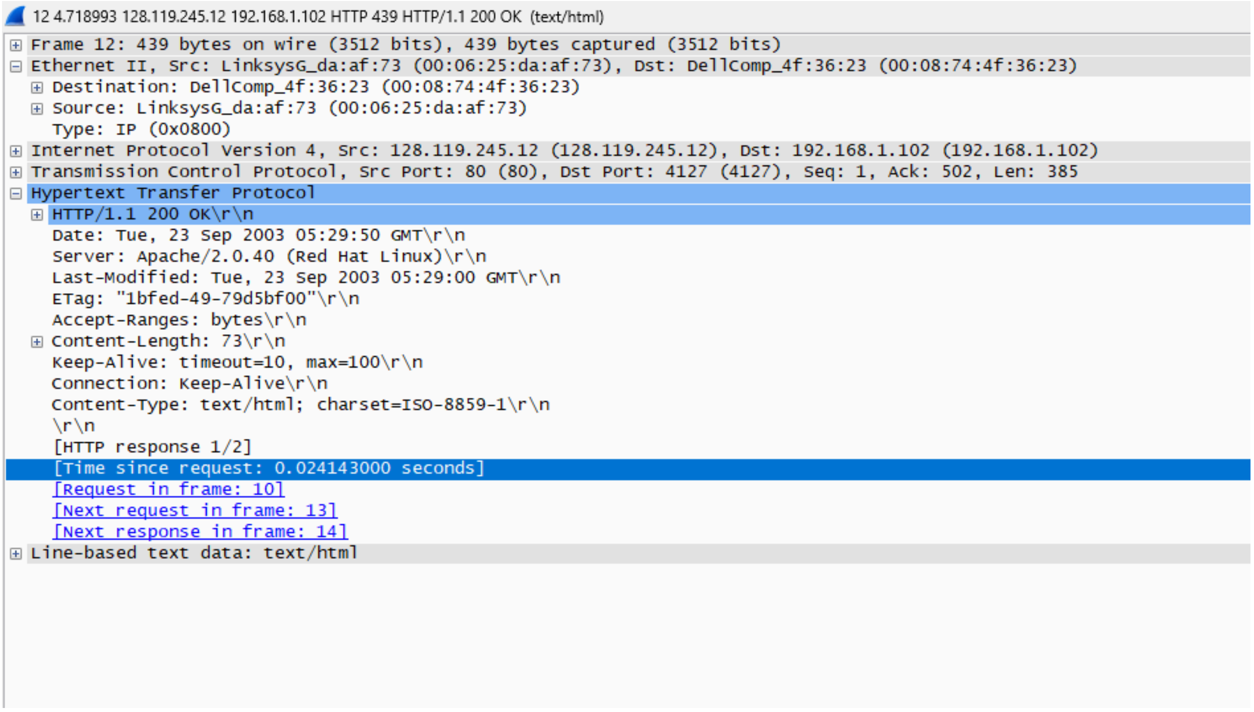
HTTP DNS TCP SNNP



http-ethereal-trace-1 [Wireshark 1.12.1 (v1.12.1-0-g01b65bf from master-1.12)]
File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help
Filter:
Expression... Clear Apply Save

```
No.   Time       Source           Destination      Protocol Length Info
    1 0.000000   192.168.1.102    192.168.1.104    SNMP       92 get-request 1.3.6.1.4.1.11.2.3.9.4.2.1.2.2.2.1.0
    2 0.017162   192.168.1.104    192.168.1.102    SNMP       93 get-response 1.3.6.1.4.1.11.2.3.9.4.2.1.2.2.2.1.0
    3 3.017086   192.168.1.102    192.168.1.104    SNMP       92 get-request 1.3.6.1.4.1.11.2.3.9.4.2.1.2.2.2.1.0
    4 3.034572   192.168.1.104    192.168.1.102    SNMP       93 get-response 1.3.6.1.4.1.11.2.3.9.4.2.1.2.2.2.1.0
    5 4.626878   192.168.1.102    63.240.76.19     DNS        77 Standard query 0x044d  A gaia.cs.umass.edu
    6 4.663785   63.240.76.19     192.168.1.102    DNS       293 Standard query response 0x044d  A 128.119.245.12
    7 4.675312   192.168.1.102    128.119.245.12   TCP        62 4127→80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1
    8 4.694429   128.119.245.12   192.168.1.102    TCP        62 80→4127 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1460 SACK_PERM=1
    9 4.694458   192.168.1.102    128.119.245.12   TCP        54 4127→80 [ACK] Seq=1 Ack=1 Win=64240 Len=0
   10 4.694850   192.168.1.102    128.119.245.12   HTTP      555 GET /ethereal-labs/lab2-1.html HTTP/1.1
   11 4.717289   128.119.245.12   192.168.1.102    TCP        60 80→4127 [ACK] Seq=1 Ack=502 Win=6432 Len=0
   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)
   15 4.859777   192.168.1.102    128.119.245.12   TCP        54 4127→80 [ACK] Seq=989 Ack=1727 Win=64240 Len=0
⊞ Frame 12: 439 bytes on wire (3512 bits), 439 bytes captured (3512 bits)
```

2)



```
12 4.718993 128.119.245.12 192.168.1.102 HTTP 439 HTTP/1.1 200 OK  (text/html)
⊞ 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: DellComp_4f:36:23 (00:08:74:4f:36:23)
  ⊞ Destination: DellComp_4f:36:23 (00:08:74:4f:36:23)
  ⊞ Source: LinksysG_da:af:73 (00:06:25:da:af:73)
    Type: IP (0x0800)
⊞ Internet Protocol Version 4, Src: 128.119.245.12 (128.119.245.12), Dst: 192.168.1.102 (192.168.1.102)
⊞ Transmission Control Protocol, Src Port: 80 (80), Dst Port: 4127 (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
  ⊞ 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]
    [Time since request: 0.024143000 seconds]
    [Request in frame: 10]
    [Next request in frame: 13]
    [Next response in frame: 14]
⊞ Line-based text data: text/html
```

3)

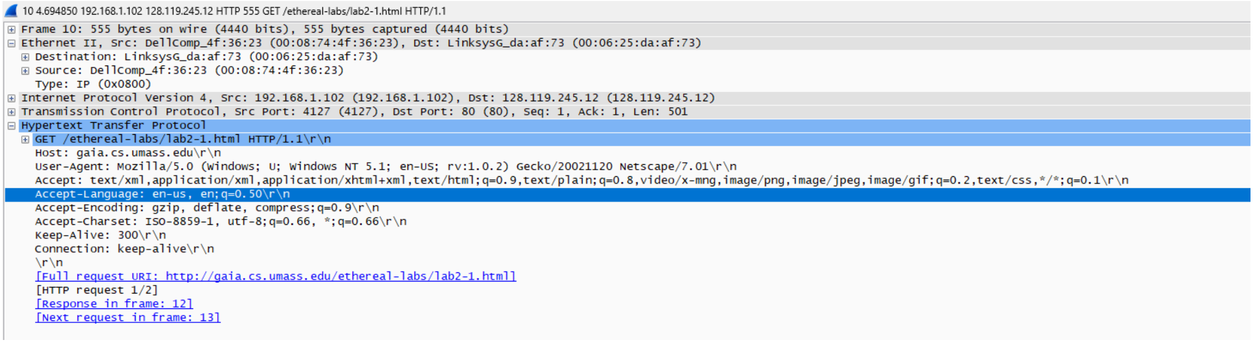
No

404 Not Found

4)

1.1

5)

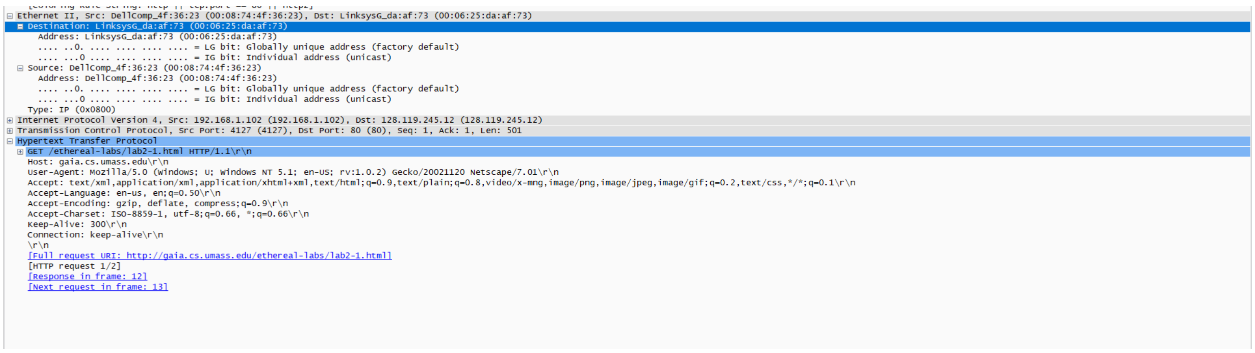


```
10 4.694850 192.168.1.102 128.119.245.12 HTTP 555 GET /ethereal-labs/lab2-1.html HTTP/1.1
⊞ Frame 10: 555 bytes on wire (4440 bits), 555 bytes captured (4440 bits)
⊟ Ethernet II, Src: DellComp_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  ⊞ Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
  ⊞ Source: DellComp_4f:36:23 (00:08:74:4f:36:23)
    Type: IP (0x0800)
⊞ Internet Protocol Version 4, Src: 192.168.1.102 (192.168.1.102), Dst: 128.119.245.12 (128.119.245.12)
⊞ Transmission Control Protocol, Src Port: 4127 (4127), Dst Port: 80 (80), Seq: 1, Ack: 1, Len: 501
⊟ Hypertext Transfer Protocol
  ⊞ GET /ethereal-labs/lab2-1.html HTTP/1.1\r\n
    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,image/gif;q=0.2,text/css,*/*;q=0.1\r\n
    Accept-Language: en-us, en;q=0.50\r\n
    Accept-Encoding: gzip, deflate, compress;q=0.9\r\n
    Accept-Charset: ISO-8859-1, utf-8;q=0.66, *;q=0.66\r\n
    Keep-Alive: 300\r\n
    Connection: keep-alive\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html]
    [HTTP request 1/2]
    [Response in frame: 12]
    [Next request in frame: 13]
```

6)

192.168.1.102(source) 128.119.245.12(destination)

7)



```
    [Coloring Rule String: http || tcp.port == 80 || http2]
⊟ Ethernet II, Src: DellComp_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  ⊟ Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
      Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
      .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
  ⊟ Source: DellComp_4f:36:23 (00:08:74:4f:36:23)
      Address: DellComp_4f:36:23 (00:08:74:4f:36:23)
      .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
      .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
⊞ Internet Protocol Version 4, Src: 192.168.1.102 (192.168.1.102), Dst: 128.119.245.12 (128.119.245.12)
⊞ Transmission Control Protocol, Src Port: 4127 (4127), Dst Port: 80 (80), Seq: 1, Ack: 1, Len: 501
⊟ Hypertext Transfer Protocol
  ⊞ GET /ethereal-labs/lab2-1.html HTTP/1.1\r\n
    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,image/gif;q=0.2,text/css,*/*;q=0.1\r\n
    Accept-Language: en-us, en;q=0.50\r\n
    Accept-Encoding: gzip, deflate, compress;q=0.9\r\n
    Accept-Charset: ISO-8859-1, utf-8;q=0.66, *;q=0.66\r\n
    Keep-Alive: 300\r\n
    Connection: keep-alive\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/ethereal-labs/lab2-1.html]
    [HTTP request 1/2]
    [Response in frame: 12]
    [Next request in frame: 13]
```

8)

Source: 4127

Destination: 80

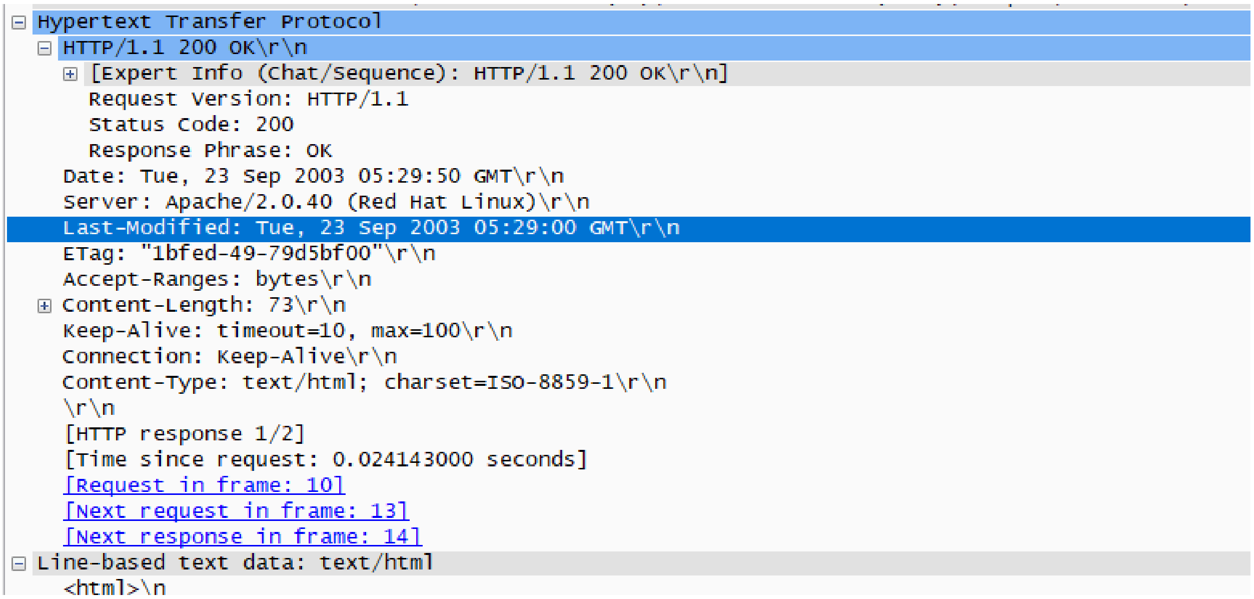
80 represents TCP

9)

200 OK

404 NOT FOUND

10)



```
⊟ Hypertext Transfer Protocol
  ⊟ HTTP/1.1 200 OK\r\n
    ⊞ [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
      Request Version: HTTP/1.1
      Status Code: 200
      Response Phrase: OK
    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
  ⊞ 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]
    [Time since request: 0.024143000 seconds]
    [Request in frame: 10]
    [Next request in frame: 13]
    [Next response in frame: 14]
⊟ Line-based text data: text/html
    <html>\n
```

11)

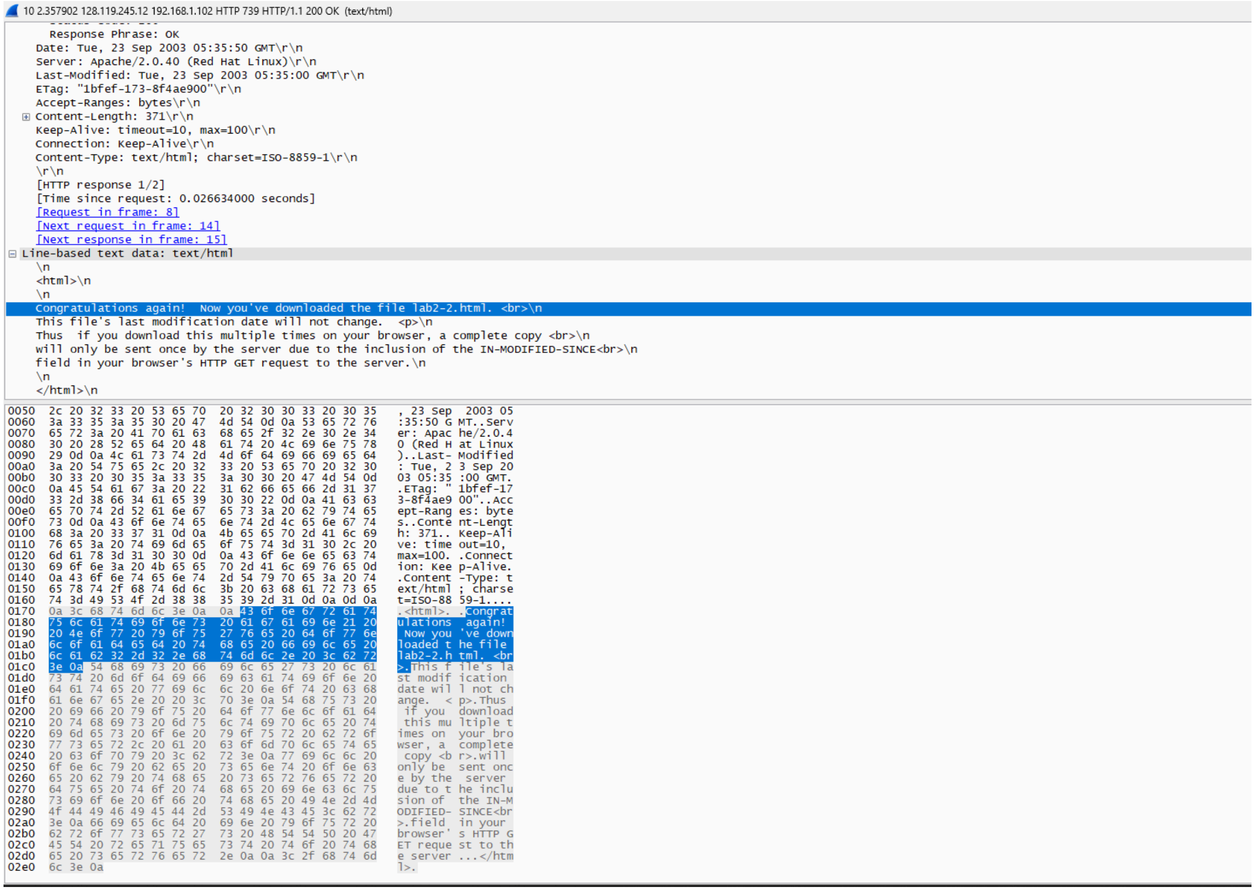
439+1395

Question-02:

1)

No

2)



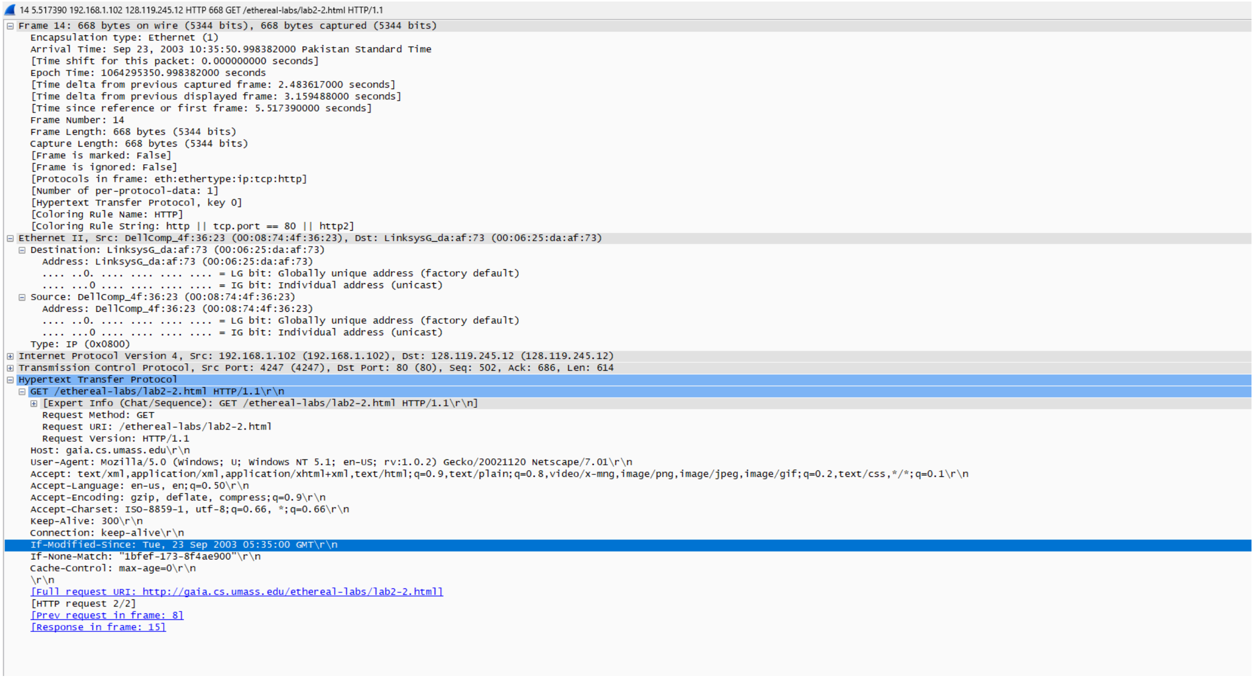
10 2.357902 128.119.245.12 192.168.1.102 HTTP 739 HTTP/1.1 200 OK (text/html)

```
      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
    \r\n
    [HTTP response 1/2]
    [Time since request: 0.026634000 seconds]
    [Request in frame: 8]
    [Next request in frame: 14]
    [Next response in frame: 15]
⊟ Line-based text data: text/html
    \n
    <html>\n
    \n
    Congratulations again!  Now you've downloaded the file lab2-2.html. <br>\n
    This file's last modification date will not change.  <p>\n
    Thus  if you download this multiple times on your browser, a complete copy <br>\n
    will only be sent once by the server due to the inclusion of the IN-MODIFIED-SINCE<br>\n
    field in your browser's HTTP GET request to the server.\n
    \n
    </html>\n
```

```
0050  2c 20 32 33 20 53 65 70  20 32 30 30 33 20 30 35   , 23 Sep  2003 05
0060  3a 33 35 3a 35 30 20 47  4d 54 0d 0a 53 65 72 76   :35:50 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
0080  30 20 28 52 65 64 20 48  61 74 20 4c 69 6e 75 78   0 (Red H at Linux
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, 2 3 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   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
0100  68 3a 20 33 37 31 0d 0a  4b 65 65 70 2d 41 6c 69   h: 371.. Keep-Ali
0110  76 65 3a 20 74 69 6d 65  6f 75 74 3d 31 30 2c 20   ve: time out=10,
0120  6d 61 78 3d 31 30 30 0d  0a 43 6f 6e 6e 65 63 74   max=100. .Connect
0130  69 6f 6e 3a 20 4b 65 65  70 2d 41 6c 69 76 65 0d   ion: Kee p-Alive.
0140  0a 43 6f 6e 74 65 6e 74  2d 54 79 70 65 3a 20 74   .Content -Type: t
0150  65 78 74 2f 68 74 6d 6c  3b 20 63 68 61 72 73 65   ext/html ; charse
0160  74 3d 49 53 4f 2d 38 38  35 39 2d 31 0d 0a 0d 0a   t=ISO-88 59-1....
0170  0a 3c 68 74 6d 6c 3e 0a  0a 43 6f 6e 67 72 61 74   .<html>. .Congrat
0180  75 6c 61 74 69 6f 6e 73  20 61 67 61 69 6e 21 20   ulations  again!
0190  20 4e 6f 77 20 79 6f 75  27 76 65 20 64 6f 77 6e    Now you 've down
01a0  6c 6f 61 64 65 64 20 74  68 65 20 66 69 6c 65 20   loaded t he file
01b0  6c 61 62 32 2d 32 2e 68  74 6d 6c 2e 20 3c 62 72   lab2-2.h tml. <br
01c0  3e 0a 54 68 69 73 20 66  69 6c 65 27 73 20 6c 61   >.This f ile's la
01d0  73 74 20 6d 6f 64 69 66  69 63 61 74 69 6f 6e 20   st modif ication
01e0  64 61 74 65 20 77 69 6c  6c 20 6e 6f 74 20 63 68   date wil l not ch
01f0  61 6e 67 65 2e 20 20 3c  70 3e 0a 54 68 75 73 20   ange.  < p>.Thus
0200  20 69 66 20 79 6f 75 20  64 6f 77 6e 6c 6f 61 64    if you  download
0210  20 74 68 69 73 20 6d 75  6c 74 69 70 6c 65 20 74    this mu ltiple t
0220  69 6d 65 73 20 6f 6e 20  79 6f 75 72 20 62 72 6f   imes on  your bro
0230  77 73 65 72 2c 20 61 20  63 6f 6d 70 6c 65 74 65   wser, a  complete
0240  20 63 6f 70 79 20 3c 62  72 3e 0a 77 69 6c 6c 20    copy <b r>.will
0250  6f 6e 6c 79 20 62 65 20  73 65 6e 74 20 6f 6e 63   only be  sent onc
0260  65 20 62 79 20 74 68 65  20 73 65 72 76 65 72 20   e by the  server
0270  64 75 65 20 74 6f 20 74  68 65 20 69 6e 63 6c 75   due to t he inclu
0280  73 69 6f 6e 20 6f 66 20  74 68 65 20 49 4e 2d 4d   sion of  the IN-M
0290  4f 44 49 46 49 45 44 2d  53 49 4e 43 45 3c 62 72   ODIFIED- SINCE<br
02a0  3e 0a 66 69 65 6c 64 20  69 6e 20 79 6f 75 72 20   >.field  in your
02b0  62 72 6f 77 73 65 72 27  73 20 48 54 54 50 20 47   browser' s HTTP G
02c0  45 54 20 72 65 71 75 65  73 74 20 74 6f 20 74 68   ET reque st to th
02d0  65 20 73 65 72 76 65 72  2e 0a 0a 3c 2f 68 74 6d   e server ...</htm
02e0  6c 3e 0a                                           l>.
```

3)

Yes ,tells when it was last modified, if modified after that date then send data otherwise tell that it is modified on



```
14 5.517390 192.168.1.102 128.119.245.12 HTTP 668 GET /ethereal-labs/lab2-2.html HTTP/1.1
⊟ Frame 14: 668 bytes on wire (5344 bits), 668 bytes captured (5344 bits)
    Encapsulation type: Ethernet (1)
    Arrival Time: Sep 23, 2003 10:35:50.998382000 Pakistan Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1064295350.998382000 seconds
    [Time delta from previous captured frame: 2.483617000 seconds]
    [Time delta from previous displayed frame: 3.159488000 seconds]
    [Time since reference or first frame: 5.517390000 seconds]
    Frame Number: 14
    Frame Length: 668 bytes (5344 bits)
    Capture Length: 668 bytes (5344 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp:http]
    [Number of per-protocol-data: 1]
    [Hypertext Transfer Protocol, key 0]
    [Coloring Rule Name: HTTP]
    [Coloring Rule String: http || tcp.port == 80 || http2]
⊟ Ethernet II, Src: DellComp_4f:36:23 (00:08:74:4f:36:23), Dst: LinksysG_da:af:73 (00:06:25:da:af:73)
  ⊟ Destination: LinksysG_da:af:73 (00:06:25:da:af:73)
      Address: LinksysG_da:af:73 (00:06:25:da:af:73)
      .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
      .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
  ⊟ Source: DellComp_4f:36:23 (00:08:74:4f:36:23)
      Address: DellComp_4f:36:23 (00:08:74:4f:36:23)
      .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
      .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
⊞ Internet Protocol Version 4, Src: 192.168.1.102 (192.168.1.102), Dst: 128.119.245.12 (128.119.245.12)
⊞ Transmission Control Protocol, Src Port: 4247 (4247), Dst Port: 80 (80), Seq: 502, Ack: 686, Len: 614
⊟ 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,image/gif;q=0.2,text/css,*/*;q=0.1\r\n
    Accept-Language: en-us, en;q=0.50\r\n
    Accept-Encoding: gzip, deflate, compress;q=0.9\r\n
    Accept-Charset: ISO-8859-1, utf-8;q=0.66, *;q=0.66\r\n
    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]
    [HTTP request 2/2]
    [Prev request in frame: 8]
    [Response in frame: 15]
```

4)

304 not modified

Question-03:

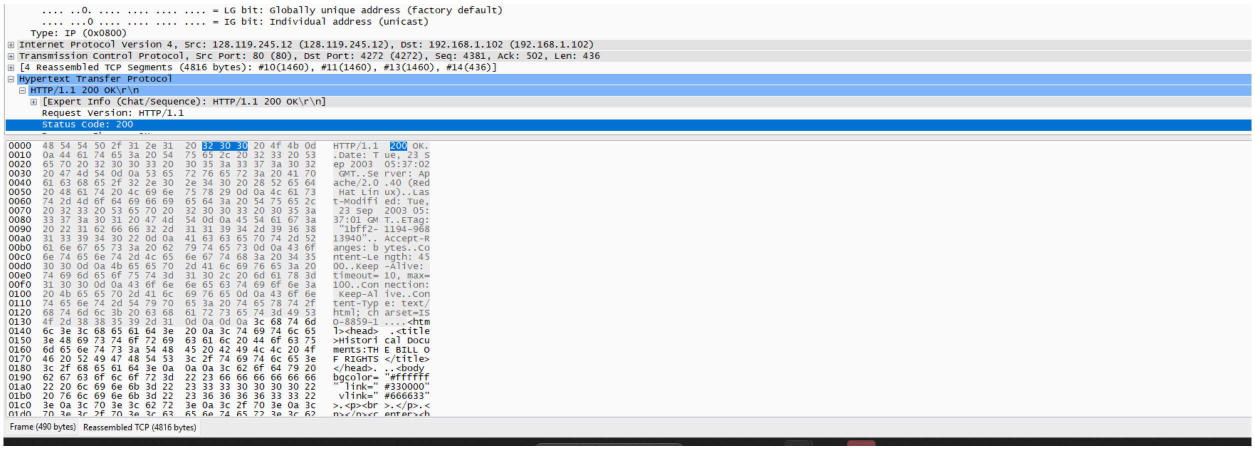
5)

1

6)
PACKET NO=8

7)
PACKET NO=14

8)



```
    .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
    .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
  Type: IP (0x0800)
⊞ Internet Protocol Version 4, Src: 128.119.245.12 (128.119.245.12), Dst: 192.168.1.102 (192.168.1.102)
⊞ Transmission Control Protocol, Src Port: 80 (80), Dst Port: 4272 (4272), Seq: 4381, Ack: 502, Len: 436
⊞ [4 Reassembled TCP Segments (4816 bytes): #10(1460), #11(1460), #13(1460), #14(436)]
⊟ Hypertext Transfer Protocol
  ⊟ HTTP/1.1 200 OK\r\n
    ⊞ [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
      Request Version: HTTP/1.1
      Status Code: 200
```

```
0000  48 54 54 50 2f 31 2e 31  20 32 30 30 20 4f 4b 0d   HTTP/1.1  200 OK.
0010  0a 44 61 74 65 3a 20 54  75 65 2c 20 32 33 20 53   .Date: T ue, 23 S
0020  65 70 20 32 30 30 33 20  30 35 3a 33 37 3a 30 32   ep 2003  05:37:02
0030  20 47 4d 54 0d 0a 53 65  72 76 65 72 3a 20 41 70    GMT..Se rver: Ap
0040  61 63 68 65 2f 32 2e 30  2e 34 30 20 28 52 65 64   ache/2.0 .40 (Red
0050  20 48 61 74 20 4c 69 6e  75 78 29 0d 0a 4c 61 73    Hat Lin ux)..Las
0060  74 2d 4d 6f 64 69 66 69  65 64 3a 20 54 75 65 2c   t-Modifi ed: Tue,
0070  20 32 33 20 53 65 70 20  32 30 30 33 20 30 35 3a    23 Sep  2003 05:
0080  33 37 3a 30 31 20 47 4d  54 0d 0a 45 54 61 67 3a   37:01 GM T..ETag:
0090  20 22 31 62 66 66 32 2d  31 31 39 34 2d 39 36 38    "1bff2- 1194-968
00a0  31 33 39 34 30 22 0d 0a  41 63 63 65 70 74 2d 52   13940".. Accept-R
00b0  61 6e 67 65 73 3a 20 62  79 74 65 73 0d 0a 43 6f   anges: b ytes..Co
00c0  6e 74 65 6e 74 2d 4c 65  6e 67 74 68 3a 20 34 35   ntent-Le ngth: 45
00d0  30 30 0d 0a 4b 65 65 70  2d 41 6c 69 76 65 3a 20   00..Keep -Alive: 
00e0  74 69 6d 65 6f 75 74 3d  31 30 2c 20 6d 61 78 3d   timeout= 10, max=
00f0  31 30 30 0d 0a 43 6f 6e  6e 65 63 74 69 6f 6e 3a   100..Con nection:
0100  20 4b 65 65 70 2d 41 6c  69 76 65 0d 0a 43 6f 6e    Keep-Al ive..Con
0110  74 65 6e 74 2d 54 79 70  65 3a 20 74 65 78 74 2f   tent-Typ e: text/
0120  68 74 6d 6c 3b 20 63 68  61 72 73 65 74 3d 49 53   html; ch arset=IS
0130  4f 2d 38 38 35 39 2d 31  0d 0a 0d 0a 3c 68 74 6d   O-8859-1 ....<htm
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0150  3e 48 69 73 74 6f 72 69  63 61 6c 20 44 6f 63 75   >Histori cal Docu
0160  6d 65 6e 74 73 3a 54 48  45 20 42 49 4c 4c 20 4f   ments:TH E BILL O
0170  46 20 52 49 47 48 54 53  3c 2f 74 69 74 6c 65 3e   F RIGHTS </title>
0180  3c 2f 68 65 61 64 3e 0a  0a 0a 3c 62 6f 64 79 20   </head>. ..<body 
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Status Code = 200

9)

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10)
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