hliresharle.

- H. Trace packets using blive shark for HTTP and Ans the following Questions.

 The Basic HTTP (NET/response interaction)

 Use URL: http://gaia.cs.uman.edu/wireshark-labs

 (HTTP-wireshark-file1.htm).
- (1) Is your browser running HTTP version 1.0

 or 1.19 What version of HTTP is the

 server running

Ves, brower running HTTP version 1.1

Request Version: HTTP/1-1

Yesponse version server; HTTP/1.1

- (2) What language does your browser indicate that it can accept from the server Accept Language: en-us, en; q=0.5\r\n
- (3) What is the status code returned from the server to your browser?

 Status (ode: 204)
- (A) When was the HTML file, that you are retrieving last modified at the server It- Modified Since: Mon, or Apr 2024
 05:59:02 GMT/r/n
- (5) How many bytes of content are being returned to your browser

 128 bytes of content are being returned

The HTTP COMDITIONAL CHET/response interaction

Use URL: http://gaia.cs. umax edu/ wireshark-labs)
HTTP-wireshark-file a.html.

6. Inspect the contents of the first HTTP OFT request from your browser to the server.

Do you see an "IF-MODIFIED- & INCE" line
in the HTTP GET?

No there is no IF-MODIFIED-SINCE line in GET my

- 7. Impect the contents of the server response.

 Pid the server explicitly return the contents of the lile? How can you tell?

 The server did explicitly between the contents of the file. Wireshark includes a section titled "Line-Based Text Data" which shows what the server sent back to my browser which is specifically what the website showed when I brought it up on my browser
- 8. Now inspect the contents of the second

 HTTP GET request from your browser to

 the server. Do you see an "IF MODIFIED
 SINCE:" line in the HTTP GET? It so,

 what information followed the "IF MODIFIED
 SINCE:" header?

Yer in the second HTTP memage an H-MODIFIED-SINCE line is included. The information that follows is the data and time that I last accented the webpage

9. What is the HTTP status code Y's "BOH 1 Ket and phrase returned from the server in response to this second HTTP GET 9 Did the server explicitly return the contents of the file? Explain

* The HTTP status code 18 " BOH: Not Modified" * The server did not return.

- Trace packets Using Intreshask for HTTP and Answer the following Questions for Retrieving Long Documents use.

 URL: http:// gaia.cs.amax.edu/wireshark-labs/
 HTTP-wireshark-files.ntml.

 1. How many HTTP-OFFT request message were sent by your browser?

 My browser sent 2 HTTP-Get request to the server. The packet the containing the Get message was packet number 16050, 16428
- 2. How many data-containing TCP segments were needed to carry the single HTTP Response?

 Sol The data was sent in & TCP segments to the browser to carry the single HTTP Response & then resembled
 - 3. What is the status code and phrase associated with the response to the HTTP GET Request.

 The status code 200 with phrase ok.
 - 4. Are there any HTTP status lines in the transmitted data associated with a TCP segment reasembled segments of a PDU?

For HTMI Documents with Embedded Objects use URL: http://gaia.cs.uman.edu/wireshark-labs/ How many HTTP-GET request messages were sent by your browser? To which Internet addresses were these GET request sent My browser sent & HTTP- MET request messages one each to each for each of the * Initial Page address: * Pearson Logo: * Pearson book, 5th Edition: 6. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel ? Explain The browser downloaded the two images in serially I belive this to be the case because the first image was requested and sent before the second image was requested by the both files would have been requested then would have returned in the same time point In this case however, the second image was only requested after the first image came

	DAIL. PAGE:
	For A. HTTP Aythentication use
	Username: wireshark-students Panword: "network"
	moit sup primately set owned our
	URL: http://gaia.cg. uman.edu/wireshark-labs/protected_ pages/HTTP-wireshark-files.html
	pages (HTTP - wireshask - files. html
	513 194269 (180)
1,	What is the server's response (status code and
	phrase) in response to the initial HTTP GET
	message from your browser?
Sol	message from your browser? The server initial response was
	In want the fast the Request on
1 yel	budges has estugated for the total
1 1114	is tolog up a free broken " surplus
81	When does your browser send the HTTP GIET
	message for the second time, what new fleet
	is includeded in the HITP of westage?
Sol?	The new field is now included is the
2	authorization field. This is included because
	we sent the server a wername and parriage
July 1	along with our request stating that were
	authorized to receive the page.
	related as all as not present with the
1000	monari a set a rea refut junca adl
1 1 1 1 1	and the payment and a supplied the
	astpol hadjurg go mandana
	solid or a diposit isharif

	a minutaring took decrease
3.	Trace packet using wireshark for 1P, 1CMP and Answer the following Questions:
	and Auswer The following of
	Use the following command to change the ICMP packet size.
	ICMP packet size.
bal	
	Ping < ipaddress url > - 8 < packetsize>
	Ex: - ping makemytrip.com 5 2000
	A STATE OF THE STA
1.	Select the first ICMP Echo Request message
	Sent by your computer, and expand the Internet protocol part of the packet in the
	Internet protocol part of the packet in the
	packet details window. What is the IP
1 D	address of your computer?
201	Source address :
30013	THE REST WAY ST ASS WAY STATE OF
2	Within the IP packet header, what is
DAMES!	value win the upper layer protocol field
	Protocol = ICMP(1), within the header, the
_	value of upper layer protocol field is ICMP(1)
5.	Flow many bytes are in the IP header?
	How many bytes are in the IP header? How many bytes are in the payload of the
	IP datagram? Explain how you determined the
801	Number of payload bytes
2	Pauload = Total longth = 12 us doe longth
	Payload = Total length - IP Header length = 84 - 20
	= 64 bytes
	theyre are 20 bytes in IP header, & bytes
	total length, this gives bytes in the payload
	of the IP datagram.

Here this IP datagram been tragmented? Explain how you determined whether or not the data datagram has been tragmented.

The more tragments bit = 0, so the datagram is not tragmented. 501 b. Which fields in the IP datagram always change from one datagram to the next within this series of ICMP messages sunt by your computer? Identification , Time to live and Header checksum always change. 801 o. Which fields stay constant?

The fields that stay constant a cross the 2017 * Version * header length * Source IP * destination IP * Differential Gervices * Upper layer Protocol. Find the first LCMP Echo Request message that was sent by your computer after you changed the Packet Size to be 2000. Has that memage been fragmented across more than one IP datagram? Sol Yes, this packet has been fragmented across more than one IP datagrand.

- When does your browser rend the HTTP GET message for the second time, what new field is included in the HTTP GET mossage?
 - 8. Write the first fragment of the fragmented IP datagram. What information in the IP header indicates that the datagram has been fragmented? What information in the IP header indicates whether this is the first fragmented versus a latter fragment? How long is this IP datagram?

The flags bit for more fragmentes is set, indicating that the datagram has been fragmented. Since the fragmente offset is o we know that this is the first fragment. The first datagram has a total length of 1500, including the header.

- 9. What information in the IP header indicates
 that this is not the first datage am
 fragment 9 Are there more fragments 9. How
 can you tell 9.
 We am tell that this is not the first
 fragment, since the fragment offset is 1486.
 It is the last fragment, since the more
 fragments flag is not set.
- the fields change in the IP header between the first and second tragment?

 The IP header fields that changed blue the tragments are total length of flags, fragment offset, and check sum.