

Assignment 2

GOVIND MORE

August 2024

1 HTTP

Q1) Total number of packets-39

Total number of GET REQUEST - 30

Total number of GET REQUEST for the text - 1

Total number of GET REQUEST for embedded content - 29

No.	Time	Source	Destination	Protocol	Length	Info
792	10.848127	10.10.70.88	192.168.10.115	HTTP	715	GET /index.php?pid=css_bootstrapmin HTTP/1.1
820	10.910392	10.10.70.88	192.168.10.115	HTTP	708	GET /index.php?pid=css_style HTTP/1.1
825	10.911473	10.10.70.88	192.168.10.115	HTTP	719	GET /index.php?pid=css_bootstrap_select HTTP/1.1
851	10.915976	10.10.70.88	192.168.10.115	HTTP	717	GET /index.php?pid=css_fontawesomemin HTTP/1.1
852	10.916059	10.10.70.88	192.168.10.115	HTTP	694	GET /index.php?pid=js_search HTTP/1.1
861	10.918464	10.10.70.88	192.168.10.115	HTTP	697	GET /index.php?pid=js_querymin HTTP/1.1
874	10.990872	10.10.70.88	192.168.10.115	HTTP	704	GET /index.php?pid=js_bootstrap_select HTTP/1.1
909	11.043103	10.10.70.88	192.168.10.115	HTTP	753	GET /index.php?pid=img_logo HTTP/1.1
912	11.084867	10.10.70.88	192.168.10.115	HTTP	766	GET /index.php?pid=independence_day_78th HTTP/1.1
960	11.221963	10.10.70.88	192.168.10.115	HTTP	779	GET /index.php?pid=Technology_Prioritization_Workshop HTTP/1.1
1469	11.583724	10.10.70.88	192.168.10.115	HTTP	768	GET /index.php?pid=WorldEnvironmentDay2024 HTTP/1.1
2648	11.895021	10.10.70.88	192.168.10.115	HTTP	755	GET /index.php?pid=meraz_24_1 HTTP/1.1
2680	11.941365	10.10.70.88	192.168.10.115	HTTP	700	GET /index.php?pid=js_bootstrapmin HTTP/1.1
2681	11.942162	10.10.70.88	192.168.10.115	HTTP	701	GET /index.php?pid=js_effi_cryptojs_hmacsha256 HTTP/1.1
2682	11.942790	10.10.70.88	192.168.10.115	HTTP	712	GET /index.php?pid=js_effi_cryptojs_hmacsha256 HTTP/1.1
2683	11.942949	10.10.70.88	192.168.10.115	HTTP	711	GET /index.php?pid=js_effi_cryptojs_hmacsha256 HTTP/1.1
11227	16.289323	10.10.70.88	192.168.10.115	HTTP	783	GET /index.php?pid=img_transparent HTTP/1.1

Figure 1: destination

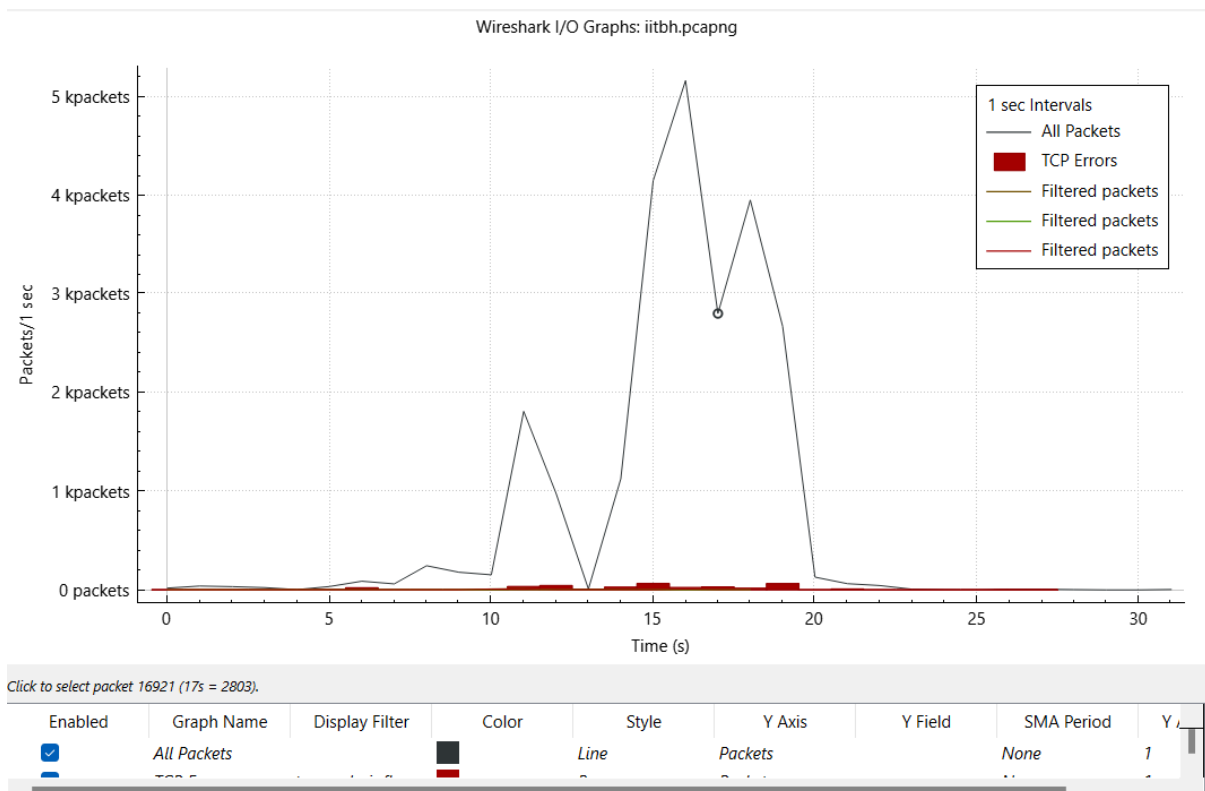


Figure 2: destination

No.	Time	Source	Destination	Protocol	Length	Info
858	10.917455	192.168.10.115	10.10.70.88	TLSv1.2	1229	HTTP/1.1 200 OK (text/html)
872	10.988790	192.168.10.115	10.10.70.88	HTTP	374	HTTP/1.1 200 OK (text/css)
907	11.039636	192.168.10.115	10.10.70.88	HTTP	346	HTTP/1.1 200 OK (text/css)
911	11.081772	192.168.10.115	10.10.70.88	HTTP	936	HTTP/1.1 200 OK (text/javascript)
958	11.218306	192.168.10.115	10.10.70.88	HTTP	1290	HTTP/1.1 200 OK (PNG)
1467	11.580609	192.168.10.115	10.10.70.88	HTTP	222	HTTP/1.1 200 OK (JPEG JFIF image)
2678	11.933026	192.168.10.115	10.10.70.88	HTTP	1041	HTTP/1.1 200 OK (text/javascript)
11309	16.376492	192.168.10.115	10.10.70.88	HTTP	168	HTTP/1.1 200 OK (text/javascript)
20187	18.769805	192.168.10.115	10.10.70.88	HTTP	1111	HTTP/1.1 200 OK (JPEG JFIF image)

Figure 3: Source

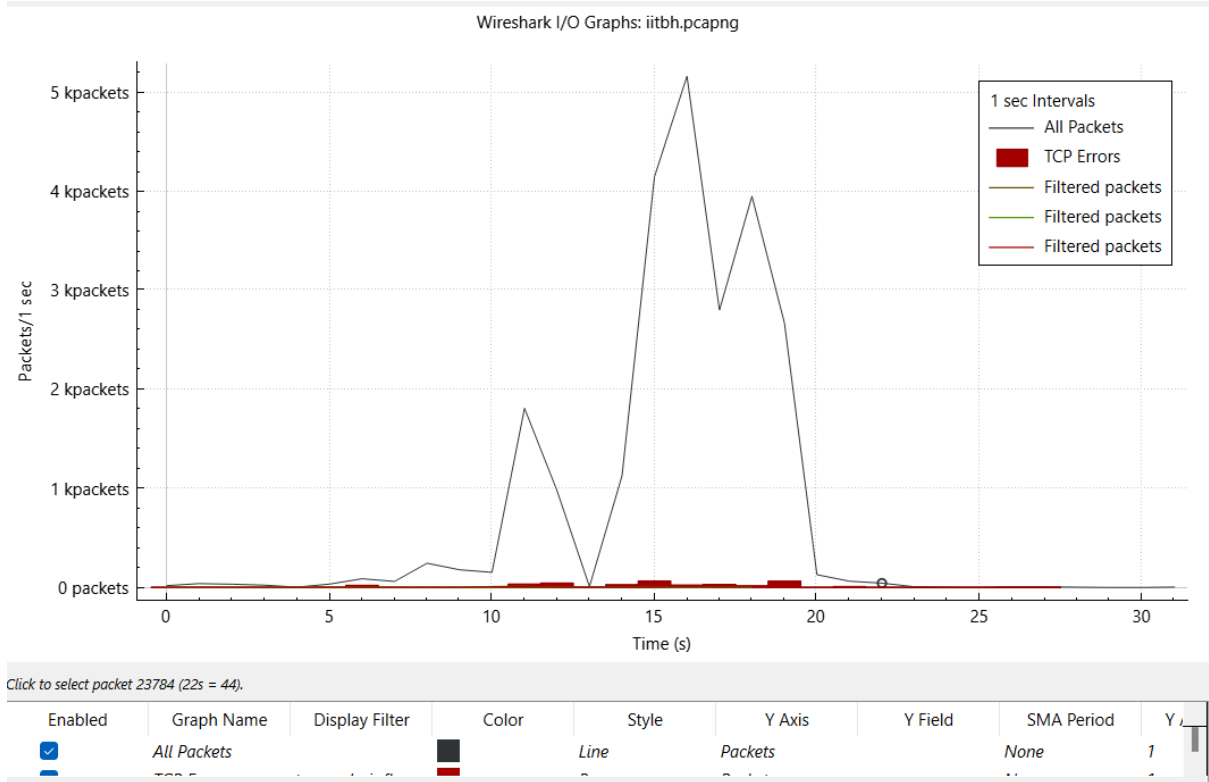


Figure 4: Source

Q2) HTTP GET /index.php?pid=css_bootstrapminHTTP/1.1 – 715
 HTTPGET/index.php?pid = css_styleHTTP/1.1 – 708
 HTTPGET/index.php?pid = css_bootstrapselectHTTP/1.1 – 719
 HTTPGET/index.php?pid = css_fontawesomeminHTTP/1.1 – 717
 HTTPGET/index.php?pid = js_searchHTTP/1.1 – 694
 HTTPGET/index.php?pid = js_queryminHTTP/1.1 – 697
 HTTPGET/index.php?pid = js_bootstrapselectHTTP/1.1 – 704
 HTTPGET/index.php?pid = img_logoHTTP/1.1 – 753
 HTTPGET/index.php?pid = independence_day78thHTTP/1.1 – 766
 HTTPGET/index.php?pid = Technology_prioritizationWorkshopHTTP/1.1 – 779
 HTTPGET/index.php?pid = meraz241HTTP/1.1 – 755
 HTTPGET/index.php?pid = WorldEnvironmentDay2024HTTP/1.1 – 768
 HTTPGET/index.php?pid = js_bootstrapminHTTP/1.1 – 700
 Q3)



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Figure 6: hex to image

- Q4.a) No, I didn't see any "IF-MODIFIED-SINCE" in any HTTP GET.
Q4.b) Yes, the server giving the content explicitly as I can see "200 OK" in packets info.

o.	Time	Source	Destination	Protocol	Length	Info
3214	5.463008	10.10.70.88	3.5.23.121	HTTP	607	GET /favicon.ico HTTP/1.1
3224	5.793699	3.5.23.121	10.10.70.88	HTTP	377	HTTP/1.1 403 Forbidden (text/html)
3239	7.733065	10.10.70.88	3.5.23.121	HTTP	775	GET / HTTP/1.1
3240	8.046296	3.5.23.121	10.10.70.88	HTTP	443	HTTP/1.1 304 Not Modified
3244	8.089307	10.10.70.88	3.5.23.121	HTTP	607	GET /favicon.ico HTTP/1.1
3256	8.353989	3.5.23.121	10.10.70.88	HTTP	377	HTTP/1.1 403 Forbidden (text/html)
3401	9.848383	10.10.70.88	3.5.23.121	HTTP	775	GET / HTTP/1.1
3421	10.108104	3.5.23.121	10.10.70.88	HTTP	443	HTTP/1.1 304 Not Modified
3430	10.158000	10.10.70.88	3.5.23.121	HTTP	607	GET /favicon.ico HTTP/1.1
3455	10.401377	3.5.23.121	10.10.70.88	HTTP	153	HTTP/1.1 403 Forbidden (text/html)
3919	11.510499	10.10.70.88	3.5.23.121	HTTP	775	GET / HTTP/1.1
4201	11.746547	3.5.23.121	10.10.70.88	HTTP	443	HTTP/1.1 304 Not Modified
4270	11.793104	10.10.70.88	3.5.23.121	HTTP	607	GET /favicon.ico HTTP/1.1
4656	12.035775	3.5.23.121	10.10.70.88	HTTP	377	HTTP/1.1 403 Forbidden (text/html)

Connection: keep-alive\r\n	0030	03 fc 6d cb 00 00 47 45 54 20 2f 20 48 54 50	--GET / HTTP
Cache-Control: max-age=0\r\n	0040	2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 62 65 74 74	/1.1--Host: bett
Upgrade-Insecure-Requests: 1\r\n	0050	05 72 6d 6f 74 68 65 72 65 75 63 68 69 6e 67 77	another fuckin
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome	0060	05 02 73 69 74 65 7e 63 6f 6d 0d 0a 43 6f 6e 6d	ebSite.c om-Conn
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*	0070	65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69	action: keep-all
Accept-Encoding: gzip, deflate\r\n	0080	76 65 0d 0a 43 61 63 68 65 2d 43 6f 6e 74 72 6f	ve--Cach e-Contro
Accept-Language: en-US,en;q=0.9,en;q=0.8\r\n	0090	6c 3a 20 6d 61 78 2d 61 67 65 3d 30 0d 0a 55 70	l: max-age=0-Up
Cookie: _ga=GAL.2.1080692904.1725089949; _gid=GAL.2.2114675775.1725089949; _gat=1; _ga_SZ1NS94TGW=	00a0	67 72 61 64 65 2d 49 6e 73 65 63 75 72 65 2d 52	grade-In secure-R
IF-None-Match: "ff48382189ab7ecba725c7bd78c14"\r\n	00b0	65 71 75 65 73 74 73 3a 20 31 0d 0a 55 73 65 72	requests: 1--User
IF-Modified-Since: Fri, 20 Feb 2015 22:26:23 GMT\r\n	00c0	2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 2f	-Agent: Mozilla/
\r\n	00d0	35 2e 30 20 28 57 69 6e 64 6f 77 73 20 4e 54 20	5.0 (Windows NT
[Response in frame: 3240]	00e0	31 30 20 30 20 20 57 69 6e 36 34 20 20 78 36 34	10.0; Win64; x64
	00f0	29 20 41 70 70 6c 65 57 65 62 4b 69 74 2f 35 33) AppleWebKit/53
	0100	37 2e 33 36 20 28 4b 48 54 4d 4c 2c 20 6c 69 6b	7.36 (KHTML, lik
	0110	65 20 47 65 63 6b 6f 20 20 43 68 73 6f 6d 65 2d	e Gecko) Chrome

Figure 7: MODIFIED-SINCE

Q4.c) Yes, I saw this on wire shark during packet capture. "IF-MODIFIED-SINCE"- It defines the date and time. And the date represents the last time the resource was modified. And by this the server determines if the requested resource has changed since that time.

Q4.d) Here HTTP status code 304 (Not modified) represents the requested resource has not been modified since the last time accessed. The server didn't return the contents explicitly instead it informed the client that the cached version is still valid and can be used.

Q5)

It is providing the details about the user's browser and operating system.

Sec - Ch - Ua - Platform : \Windows" : It specifies which platform the user is using.

Accept : / : It says that any type of content is acceptable.

Sec - Fetch - Site : same - origin : Indicates that the request is for a resource from the same origin.

Sec - Fetch - Mode : no - cors : It identifies the mode of the request.

Sec - Fetch - Dest : script : It indicates the destination of the fetched resource.

Referer : https : //iitbhlai.ac.in/ : It is the url that made the request.

Accept - Encoding : gzip, deflate, br : List the encoding formats that are acceptable for the response.

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<https://turreta.com/blog/2018/02/16/log-unencrypted-soap-fault-messages-in-apache-cxf/>.

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(7) 3.8.8 Lab - Explore DNS Traffic (Answers) - IT Exam Answers. <https://itexamanswers.net/3-8-8-lab-explore-dns-traffic-answers.html>.

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(14) Basic Packet Analysis Using Wireshark 0xElshazly Mohamed Ayman....
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(15) undefined. <https://tryhackme.com/>

2 DNS

Q1.a)

DNS	90	Standard	query	0xc802	A	edge.microsoft.com	
DNS	90	Standard	query	0xcc0	HTTPS	edge.microsoft.com	
DNS	210	Standard	query response	0xcc0	HTTPS	edge.microsoft.com	CNAME edge-microsoft-com.dual-a-0036.a-msedge.net CNAME dual-a-0036.a-m...
DNS	904	Standard	query response	0xc802	A	edge.microsoft.com	CNAME edge-microsoft-com.dual-a-0036.a-msedge.net CNAME dual-a-0036.a-msedg...
DNS	88	Standard	query	0x91c3	HTTPS	web.whatsapp.com	
DNS	88	Standard	query	0x4cb8	A	web.whatsapp.com	
DNS	172	Standard	query response	0x91c3	HTTPS	web.whatsapp.com	CNAME mmx-ds.cdn.whatsapp.net SOA a.ns.whatsapp.net
DNS	852	Standard	query response	0x4cb8	A	web.whatsapp.com	CNAME mmx-ds.cdn.whatsapp.net A 163.70.144.60 NS h.gtld-servers.net NS b.gtld...
DNS	89	Standard	query	0x387c	A	fonts.gstatic.com	
DNS	87	Standard	query	0x5e49	HTTPS	www.gstatic.com	
DNS	87	Standard	query	0x6fed	A	www.gstatic.com	
DNS	89	Standard	query	0x5242	HTTPS	fonts.gstatic.com	
DNS	362	Standard	query response	0x387c	A	fonts.gstatic.com	A 142.250.183.195 NS ns2.google.com NS ns3.google.com NS ns1.google.com NS n...
DNS	146	Standard	query response	0x5e49	HTTPS	www.gstatic.com	SOA ns1.google.com
DNS	148	Standard	query response	0x5242	HTTPS	fonts.gstatic.com	SOA ns1.google.com
DNS	360	Standard	query response	0x6fed	A	www.gstatic.com	A 142.250.67.195 NS ns4.google.com NS ns1.google.com NS ns3.google.com NS ns2...
DNS	86	Standard	query	0x3fd6	HTTPS	lh3.google.com	
DNS	86	Standard	query	0xff75	A	lh3.google.com	
DNS	372	Standard	query response	0xff75	A	lh3.google.com	CNAME lh2.l.google.com A 142.250.71.110 NS ns4.google.com NS ns2.google.com NS ...
DNS	96	Standard	query	0x2127	A	www.googleadservices.com	
DNS	96	Standard	query	0x6f24	HTTPS	www.googleadservices.com	
DNS	369	Standard	query response	0x2127	A	www.googleadservices.com	A 142.250.76.194 NS ns2.google.com NS ns3.google.com NS ns1.google.co...
DNS	378	Standard	query response	0x6f24	HTTPS	www.googleadservices.com	HTTPS NS ns4.google.com NS ns2.google.com NS ns3.google.com NS ns...
DNS	158	Standard	query response	0x3fd6	HTTPS	lh3.google.com	CNAME lh2.l.google.com SOA ns1.google.com

Figure 10: DNS

Domain Name	IP Address
edge.microsoft.com	13.107.42.16
web.whatsapp.com	163.70.144.60
fonts.gstatic.com	142.250.183.195
www.gstatic.com	142.250.67.195
lh3.google.com	142.250.71.110
www.googleadservices.com	142.250.76.194

Table 1: Domain Name and IP Address Table

Q1.b)

10 2.049754	192.168.10.87	10.10.70.88	DNS	384 Standard query response 0xa3f9 A static.edge.microsoftapp.net CNAME edge-cloud-resource-static.azureedge.net CNAME edge-cloud-re-
25 2.088903	192.168.10.87	10.10.70.88	DNS	360 Standard query response 0x04fb HTTPS static.edge.microsoftapp.net CNAME edge-cloud-resource-static.azureedge.net CNAME edge-clou-
391 4.164054	192.168.10.87	10.10.70.88	DNS	271 Standard query response 0xcbb5 HTTPS functional.events.data.microsoft.com CNAME global.asimov.events.data.trafficmanager.net CNA-
398 4.164054	192.168.10.87	10.10.70.88	DNS	389 Standard query response 0xf4a5 A functional.events.data.microsoft.com CNAME global.asimov.events.data.trafficmanager.net CNAME o-
1017 5.116274	192.168.10.87	10.10.70.88	DNS	352 Standard query response 0x16bf A www.google.com A 142.250.192.4 NS ns1.google.com NS ns4.google.com NS ns3.google.com NS ns2.goo-
1019 5.116643	192.168.10.87	10.10.70.88	DNS	361 Standard query response 0xfcd7 HTTPS www.google.com HTTPS NS ns4.google.com NS ns2.google.com NS ns3.google.com NS ns1.google.co-
1274 5.321139	192.168.10.87	10.10.70.88	DNS	395 Standard query response 0xb8ba A beacons.gcp.gvt2.com CNAME beacons-handoff.gcp.gvt2.com A 142.250.192.99 NS ns3.google.com NS n-
1275 5.321139	192.168.10.87	10.10.70.88	DNS	357 Standard query response 0xa12a HTTPS google.com HTTPS NS ns2.google.com NS ns3.google.com NS ns4.google.com NS ns1.google.com A -
1276 5.321139	192.168.10.87	10.10.70.88	DNS	181 Standard query response 0x1f38 HTTPS beacons.gcp.gvt2.com CNAME beacons-handoff.gcp.gvt2.com SOA ns1.google.com
1277 5.321139	192.168.10.87	10.10.70.88	DNS	348 Standard query response 0xf4e9 A google.com A 142.250.183.206 NS ns4.google.com NS ns2.google.com NS ns3.google.com NS ns1.goo-
2551 6.600642	192.168.10.72	10.10.70.88	DNS	542 Standard query response 0xb6c3 A msedge.b.tlu.dl.delivery.mp.microsoft.com CNAME star.b.tlu.dl.delivery.mp.microsoft.com deliver-
2553 6.601703	192.168.10.87	10.10.70.88	DNS	550 Standard query response 0xb6c3 A msedge.b.tlu.dl.delivery.mp.microsoft.com CNAME star.b.tlu.dl.delivery.mp.microsoft.com deliver-
3066 7.022836	192.168.10.87	10.10.70.88	DNS	553 Standard query response 0x31c A www.bing.com CNAME www-ww.bing.com.trafficmanager.net CNAME www.bing.com.edgekey.net CNAME e86-
3081 7.050415	192.168.10.87	10.10.70.88	DNS	254 Standard query response 0x1995 HTTPS www.bing.com CNAME www-ww.bing.com.trafficmanager.net CNAME www.bing.com.edgekey.net CNAME
4609 9.636179	192.168.10.87	10.10.70.88	DNS	185 Standard query response 0x08bd HTTPS lh5.googleusercontent.com CNAME googlehosted.l.googleusercontent.com SOA ns1.google.com
4610 9.636179	192.168.10.87	10.10.70.88	DNS	399 Standard query response 0xd919 A lh5.googleusercontent.com CNAME googlehosted.l.googleusercontent.com A 142.250.70.65 NS ns3.goo-
4933 11.612398	192.168.10.87	10.10.70.88	DNS	352 Standard query response 0x3b2b A www.google.com A 142.250.192.4 NS ns3.google.com NS ns4.google.com NS ns1.google.com NS ns2.goo-
4934 11.612398	192.168.10.87	10.10.70.88	DNS	139 Standard query response 0x7f6b HTTPS www.iitbhlai.ac.in SOA dns2.iitbhlai.ac.in
4935 11.612398	192.168.10.87	10.10.70.88	DNS	144 Standard query response 0xe571 A www.iitbhlai.ac.in A 192.168.10.115 NS dns2.iitbhlai.ac.in A 192.168.10.72
4936 11.612398	192.168.10.87	10.10.70.88	DNS	361 Standard query response 0xc1c9 HTTPS www.google.com HTTPS NS ns4.google.com NS ns2.google.com NS ns3.google.com NS ns1.google.co-
5217 11.775638	192.168.10.72	10.10.70.88	DNS	179 Standard query response 0xf693 HTTPS google-ohp-relay-safebrowsing.fastly-edge.com SOA ns1.fastly-edge.com
5219 11.775819	192.168.10.72	10.10.70.88	DNS	385 Standard query response 0x7c7a A google-ohp-relay-safebrowsing.fastly-edge.com A 151.101.153.91 NS ns1.fastly-edge.com NS ns4..
5220 11.775819	192.168.10.72	10.10.70.88	DNS	433 Standard query response 0x7c7a A google-ohp-relay-safebrowsing.fastly-edge.com A 151.101.153.91 NS ns1.fastly-edge.com NS ns4..

Figure 11: Source and destination

192.168.10.87 and 192.168.10.72 are the ip addresses of the sources and 10.10.70.88 is the ip address of the Destination.

```

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa6xxx: $ dig
;<<< DIG 9.10.20-dubuntu0.22.04.1-Ubuntu <<<
;; global options: +cmd
;; Got answer:
;;->HEADER<: opcode: QUERY, status: NOERROR, id: 43271
;; Flags: qr rd ra; QUERY: 1, ANSWER: 13, AUTHORITY: 0, ADDITIONAL: 27
;; OPT PSEUDOSECTION:
;; EDNS: version: 0, flags: udp: 65494
;; QUESTION SECTION:
;;      IN      NS
;;
;; ANSWER SECTION:
;;      453622  IN      NS      c.root-servers.net.
;;      453622  IN      NS      k.root-servers.net.
;;      453622  IN      NS      l.root-servers.net.
;;      453622  IN      NS      g.root-servers.net.
;;      453622  IN      NS      e.root-servers.net.
;;      453622  IN      NS      m.root-servers.net.
;;      453622  IN      NS      i.root-servers.net.
;;      453622  IN      NS      b.root-servers.net.
;;      453622  IN      NS      h.root-servers.net.
;;      453622  IN      NS      e.root-servers.net.
;;      453622  IN      NS      j.root-servers.net.
;;      453622  IN      NS      f.root-servers.net.
;;      453622  IN      NS      d.root-servers.net.
;;
;; ADDITIONAL SECTION:
;;      a.root-servers.net. 483541 IN A 198.41.0.4
;;      a.root-servers.net. 164168 IN AAAA 2001:503:ba3e::2:30
;;      b.root-servers.net. 58959 IN A 210.247.170.2
;;      b.root-servers.net. 139188 IN AAAA 2001:1bb:10::b
;;      c.root-servers.net. 166382 IN A 192.33.4.12
;;      c.root-servers.net. 53238 IN AAAA 2001:500:2::c
;;      d.root-servers.net. 93660 IN A 199.7.91.13
;;      d.root-servers.net. 295186 IN AAAA 2001:500:2d::d
;;      e.root-servers.net. 302293 IN A 192.203.230.10
;;      e.root-servers.net. 581081 IN AAAA 2001:500:a8::e
;;      f.root-servers.net. 159950 IN A 192.5.5.241
;;      f.root-servers.net. 242996 IN AAAA 2001:500:2f::f
;;      g.root-servers.net. 204743 IN A 192.112.16.4
;;      g.root-servers.net. 58350 IN AAAA 2001:500:12::ddd
;;      h.root-servers.net. 71377 IN A 198.97.190.53
;;      h.root-servers.net. 161738 IN AAAA 2001:500:11::53
;;      i.root-servers.net. 140250 IN A 192.36.148.17
;;      i.root-servers.net. 73513 IN AAAA 2001:7fe::53
;;      j.root-servers.net. 442406 IN A 192.58.128.30
;;      j.root-servers.net. 148096 IN AAAA 2001:503:c27::12:30
;;      k.root-servers.net. 48945 IN A 193.0.14.129
;;      k.root-servers.net. 426642 IN AAAA 2001:7fd::1
;;      l.root-servers.net. 451128 IN A 199.7.83.42
;;      l.root-servers.net. 298969 IN AAAA 2001:500:9f::42
;;      m.root-servers.net. 244887 IN A 202.12.27.33
;;      m.root-servers.net. 148097 IN AAAA 2001:dc3::35

```

Figure 12: Enter Caption

```
Activities Terminal Aug 31 21:37
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns4.registry.in. www.titbhlai.ac.in
;; Query time: 21 msec
;; SERVER: 192.203.230.10#53(e.root-servers.net.) (UDP)
;; WHEN: Sat Aug 31 21:30:26 IST 2024
;; MSG SIZE rcvd: 429

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns4.registry.in. www.titbhlai.ac.in
<<>> DIG 9.10.20-ubuntu0.22.04.1-Ubuntu <<>> @ns4.registry.in. www.titbhlai.ac.in
(2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 52771
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 2, ADDITIONAL: 3
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;www.titbhlai.ac.in. IN A

;; AUTHORITY SECTION:
titbhlai.ac.in. 3600 IN NS dns1.titbhlai.ac.in.
titbhlai.ac.in. 3600 IN NS dns2.titbhlai.ac.in.

;; ADDITIONAL SECTION:
dns2.titbhlai.ac.in. 3600 IN A 103.147.138.111
dns1.titbhlai.ac.in. 3600 IN A 103.147.138.110

;; Query time: 21 msec
;; SERVER: 37.209.198.12#53(ns4.registry.in.) (UDP)
;; WHEN: Sat Aug 31 21:30:47 IST 2024
;; MSG SIZE rcvd: 118

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @dns2.titbhlai.ac.in. www.titbhlai.ac.in
<<>> DIG 9.10.20-ubuntu0.22.04.1-Ubuntu <<>> @dns2.titbhlai.ac.in. www.titbhlai.ac.in
(1 server found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 16859
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;www.titbhlai.ac.in. IN A

;; ANSWER SECTION:
www.titbhlai.ac.in. 8641 IN A 192.168.10.115

;; AUTHORITY SECTION:
titbhlai.ac.in. 8641 IN NS dns2.titbhlai.ac.in.

;; ADDITIONAL SECTION:
dns2.titbhlai.ac.in. 8641 IN A 192.168.10.72
```

Figure 13: Enter Caption

```
Activities Terminal Aug 31 21:38
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns4.registry.in. www.titbhlai.ac.in
<<>> DIG 9.10.20-ubuntu0.22.04.1-Ubuntu <<>> @ns4.registry.in. www.titbhlai.ac.in
(2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 52771
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 2, ADDITIONAL: 3
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;www.titbhlai.ac.in. IN A

;; AUTHORITY SECTION:
titbhlai.ac.in. 3600 IN NS dns1.titbhlai.ac.in.
titbhlai.ac.in. 3600 IN NS dns2.titbhlai.ac.in.

;; ADDITIONAL SECTION:
dns2.titbhlai.ac.in. 3600 IN A 103.147.138.111
dns1.titbhlai.ac.in. 3600 IN A 103.147.138.110

;; Query time: 21 msec
;; SERVER: 37.209.198.12#53(ns4.registry.in.) (UDP)
;; WHEN: Sat Aug 31 21:30:47 IST 2024
;; MSG SIZE rcvd: 118

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @dns2.titbhlai.ac.in. www.titbhlai.ac.in
<<>> DIG 9.10.20-ubuntu0.22.04.1-Ubuntu <<>> @dns2.titbhlai.ac.in. www.titbhlai.ac.in
(1 server found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 16859
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
;; QUESTION SECTION:
;www.titbhlai.ac.in. IN A

;; ANSWER SECTION:
www.titbhlai.ac.in. 8641 IN A 192.168.10.115

;; AUTHORITY SECTION:
titbhlai.ac.in. 8641 IN NS dns2.titbhlai.ac.in.

;; ADDITIONAL SECTION:
dns2.titbhlai.ac.in. 8641 IN A 192.168.10.72

;; Query time: 3 msec
;; SERVER: 192.168.10.72#53(dns2.titbhlai.ac.in.) (UDP)
;; WHEN: Sat Aug 31 21:31:24 IST 2024
;; MSG SIZE rcvd: 99
```

Figure 14: Enter Caption


```

Activities Terminal Aug 31 21:38
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @e.root-servers.net. www.litb.ac.in

<<>> DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<>> @e.root-servers.net. www.litb.ac.in
; (2 servers found)
; global options: +cmd
; Got answer:
;-->HEADER<<< opcode: QUERY, status: NOERROR, id: 57147
; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 13
; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1472
;; QUESTION SECTION:
;www.litb.ac.in. IN A

;; AUTHORITY SECTION:
in. 172800 IN NS ns1.registry.in.
in. 172800 IN NS ns2.registry.in.
in. 172800 IN NS ns3.registry.in.
in. 172800 IN NS ns4.registry.in.
in. 172800 IN NS ns5.registry.in.
in. 172800 IN NS ns6.registry.in.

;; ADDITIONAL SECTION:
ns1.registry.in. 172800 IN A 37.209.192.12
ns1.registry.in. 172800 IN AAAA 2001:dcd:11:12
ns2.registry.in. 172800 IN A 37.209.194.12
ns2.registry.in. 172800 IN AAAA 2001:dcd:2:12
ns3.registry.in. 172800 IN A 37.209.196.12
ns3.registry.in. 172800 IN AAAA 2001:dcd:3:12
ns4.registry.in. 172800 IN A 37.209.198.12
ns4.registry.in. 172800 IN AAAA 2001:dcd:4:12
ns5.registry.in. 172800 IN A 156.154.100.20
ns5.registry.in. 172800 IN AAAA 2001:502:2eda:20
ns6.registry.in. 172800 IN A 156.154.101.20
ns6.registry.in. 172800 IN AAAA 2001:502:ad09:20

;; Query time: 23 msec
;; SERVER: 192.203.230.10853(e.root-servers.net.) (UDP)
;; WHEN: Sat Aug 31 21:33:19 IST 2024
;; MSG SIZE rcvd: 425

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns2.registry.in. www.litb.ac.in

<<>> DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<>> @ns2.registry.in. www.litb.ac.in
; (2 servers found)
; global options: +cmd
; Got answer:
;-->HEADER<<< opcode: QUERY, status: NOERROR, id: 44236
; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 3, ADDITIONAL: 4
; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;www.litb.ac.in. IN A

```

Figure 15: Enter Caption

```

Activities Terminal Aug 31 21:38
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns2.registry.in. www.litb.ac.in

MSG SIZE rcvd: 425

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns2.registry.in. www.litb.ac.in

<<>> DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<>> @ns2.registry.in. www.litb.ac.in
; (2 servers found)
; global options: +cmd
; Got answer:
;-->HEADER<<< opcode: QUERY, status: NOERROR, id: 44236
; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 3, ADDITIONAL: 4
; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;www.litb.ac.in. IN A

;; AUTHORITY SECTION:
litb.ac.in. 86400 IN NS dns3.litb.ac.in.
litb.ac.in. 86400 IN NS dns2.litb.ac.in.
litb.ac.in. 86400 IN NS dns1.litb.ac.in.

;; ADDITIONAL SECTION:
dns3.litb.ac.in. 86400 IN A 103.21.127.129
dns2.litb.ac.in. 86400 IN A 103.21.126.129
dns1.litb.ac.in. 86400 IN A 103.21.125.129

;; Query time: 61 msec
;; SERVER: 37.209.194.12853(ns2.registry.in.) (UDP)
;; WHEN: Sat Aug 31 21:33:39 IST 2024
;; MSG SIZE rcvd: 148

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @dns3.litb.ac.in. www.litb.ac.in

<<>> DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<>> @dns3.litb.ac.in. www.litb.ac.in
; (1 server found)
; global options: +cmd
; Got answer:
;-->HEADER<<< opcode: QUERY, status: NOERROR, id: 68560
; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 3, ADDITIONAL: 3
; WARNING: recursion requested but not available

;; QUESTION SECTION:
;www.litb.ac.in. IN A

;; ANSWER SECTION:
www.litb.ac.in. 300 IN A 103.21.124.133

;; AUTHORITY SECTION:
litb.ac.in. 21600 IN NS dns1.litb.ac.in.
litb.ac.in. 21600 IN NS dns2.litb.ac.in.
litb.ac.in. 21600 IN NS dns3.litb.ac.in.

;; ADDITIONAL SECTION:
dns1.litb.ac.in. 21600 IN A 103.21.125.129
dns2.litb.ac.in. 21600 IN A 103.21.126.129

```

Figure 16: Enter Caption


```
Activities Terminator Aug 31 23:10
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig
;<<< DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<<
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 34831
;; flags: qr rd ra; QUERY: 1, ANSWER: 13, AUTHORITY: 0, ADDITIONAL: 14
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;: IN NS
;; ANSWER SECTION:
. 476543 IN NS l.root-servers.net.
. 476543 IN NS n.root-servers.net.
. 476543 IN NS a.root-servers.net.
. 476543 IN NS b.root-servers.net.
. 476543 IN NS c.root-servers.net.
. 476543 IN NS d.root-servers.net.
. 476543 IN NS e.root-servers.net.
. 476543 IN NS f.root-servers.net.
. 476543 IN NS g.root-servers.net.
. 476543 IN NS h.root-servers.net.
. 476543 IN NS i.root-servers.net.
. 476543 IN NS j.root-servers.net.
. 476543 IN NS k.root-servers.net.
;; ADDITIONAL SECTION:
a.root-servers.net. 19936 IN A 198.41.0.4
a.root-servers.net. 19936 IN AAAA 2001:503:ba3e:2:30
b.root-servers.net. 19936 IN A 178.247.170.2
b.root-servers.net. 19936 IN AAAA 2001:1b0:101:b
c.root-servers.net. 19936 IN A 192.33.4.12
c.root-servers.net. 19936 IN AAAA 2001:500:2::c
d.root-servers.net. 19936 IN A 199.7.91.13
d.root-servers.net. 19936 IN AAAA 2001:500:2d::d
e.root-servers.net. 19936 IN A 192.203.230.10
e.root-servers.net. 19936 IN AAAA 2001:500:a8::e
f.root-servers.net. 19936 IN A 192.5.5.241
f.root-servers.net. 19936 IN AAAA 2001:500:2f::f
g.root-servers.net. 19936 IN A 192.112.36.4
;; Query time: 65 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sat Aug 31 23:08:26 IST 2024
;; MSG SIZE rcvd: 519
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @e.root-servers.net. www.ittkgp.ac.in
;<<< DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<< @e.root-servers.net. www.ittkgp.ac.in
; (2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 6472
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 6, ADDITIONAL: 13
;; WARNING: recursion requested but not available
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; QUESTION SECTION:
;www.ittkgp.ac.in. IN A
;; AUTHORITY SECTION:
ln. 172800 IN NS ns1.registry.ln.
ln. 172800 IN NS ns2.registry.ln.
ln. 172800 IN NS ns3.registry.ln.
ln. 172800 IN NS ns4.registry.ln.
ln. 172800 IN NS ns5.registry.ln.
ln. 172800 IN NS ns6.registry.ln.
;; ADDITIONAL SECTION:
ns1.registry.ln. 172800 IN A 37.209.192.12
ns1.registry.ln. 172800 IN AAAA 2001:dcd3:1:12
ns2.registry.ln. 172800 IN A 37.209.194.12
ns2.registry.ln. 172800 IN AAAA 2001:dcd:2:12
ns3.registry.ln. 172800 IN A 37.209.196.12
ns3.registry.ln. 172800 IN AAAA 2001:dcd3:1:12
ns4.registry.ln. 172800 IN A 37.209.198.12
ns4.registry.ln. 172800 IN AAAA 2001:dcd:4:12
ns5.registry.ln. 172800 IN A 156.154.100.20
ns5.registry.ln. 172800 IN AAAA 2001:502:2eda:120
ns6.registry.ln. 172800 IN A 156.154.101.20
ns6.registry.ln. 172800 IN AAAA 2001:502:ad09:120
;; Query time: 83 msec
;; SERVER: 2001:500:a8::e#53(e.root-servers.net.) (UDP)
;; WHEN: Sat Aug 31 23:09:09 IST 2024
;; MSG SIZE rcvd: 426
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns1.registry.ln. www.ittkgp.ac.in
;<<< DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<< @ns1.registry.ln. www.ittkgp.ac.in
; (2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 49819
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 3, ADDITIONAL: 4
;; WARNING: recursion requested but not available
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
```

Figure 17: Enter Caption

```
Activities Terminator Aug 31 23:10
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @e.root-servers.net. www.ittkgp.ac.in
;<<< DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<< @e.root-servers.net. www.ittkgp.ac.in
; (2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 6472
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 6, ADDITIONAL: 13
;; WARNING: recursion requested but not available
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
;; QUESTION SECTION:
;www.ittkgp.ac.in. IN A
;; AUTHORITY SECTION:
ln. 172800 IN NS ns1.registry.ln.
ln. 172800 IN NS ns2.registry.ln.
ln. 172800 IN NS ns3.registry.ln.
ln. 172800 IN NS ns4.registry.ln.
ln. 172800 IN NS ns5.registry.ln.
ln. 172800 IN NS ns6.registry.ln.
;; ADDITIONAL SECTION:
ns1.registry.ln. 172800 IN A 37.209.192.12
ns1.registry.ln. 172800 IN AAAA 2001:dcd3:1:12
ns2.registry.ln. 172800 IN A 37.209.194.12
ns2.registry.ln. 172800 IN AAAA 2001:dcd:2:12
ns3.registry.ln. 172800 IN A 37.209.196.12
ns3.registry.ln. 172800 IN AAAA 2001:dcd3:1:12
ns4.registry.ln. 172800 IN A 37.209.198.12
ns4.registry.ln. 172800 IN AAAA 2001:dcd:4:12
ns5.registry.ln. 172800 IN A 156.154.100.20
ns5.registry.ln. 172800 IN AAAA 2001:502:2eda:120
ns6.registry.ln. 172800 IN A 156.154.101.20
ns6.registry.ln. 172800 IN AAAA 2001:502:ad09:120
;; Query time: 83 msec
;; SERVER: 2001:500:a8::e#53(e.root-servers.net.) (UDP)
;; WHEN: Sat Aug 31 23:09:09 IST 2024
;; MSG SIZE rcvd: 426
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns1.registry.ln. www.ittkgp.ac.in
;<<< DIG 9.18.28-ubuntu0.22.04.1-Ubuntu <<< @ns1.registry.ln. www.ittkgp.ac.in
; (2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 49819
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 3, ADDITIONAL: 4
;; WARNING: recursion requested but not available
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
```

Figure 18: Enter Caption

```
Activities Terminator Aug 31 23:10
veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns1.registry.in. www.litkgp.ac.in
<<>> DIG 9.18.28-bubuntu0.22.04.1-Ubuntu <<>> @ns1.registry.in. www.litkgp.ac.in
(2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 49819
;; flags: qr rd; QUERY: 1, ANSWER: 0, AUTHORITY: 3, ADDITIONAL: 4
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;www.litkgp.ac.in. IN A

;; AUTHORITY SECTION:
litkgp.ac.in. 3600 IN NS ns2.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns1.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns3.litkgp.ac.in.

;; ADDITIONAL SECTION:
ns3.litkgp.ac.in. 3600 IN A 203.110.242.36
ns2.litkgp.ac.in. 3600 IN A 203.110.244.241
ns1.litkgp.ac.in. 3600 IN A 203.110.245.241

;; Query time: 125 msec
;; SERVER: 2001:dc0:1::12853(ns1.registry.in.) (UDP)
;; WHEN: Sat Aug 31 23:09:28 IST 2024
;; MSG SIZE rcvd: 147

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns3.litkgp.ac.in. www.litkgp.ac.in
<<>> DIG 9.18.28-bubuntu0.22.04.1-Ubuntu <<>> @ns3.litkgp.ac.in. www.litkgp.ac.in
(2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 58552
;; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 3, ADDITIONAL: 4
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
; COOKIE: 335f23f04de7d9221d89e45366d3559a58529a4a781950fd (good)
;; QUESTION SECTION:
;www.litkgp.ac.in. IN A

;; ANSWER SECTION:
www.litkgp.ac.in. 3600 IN A 203.110.243.180

;; AUTHORITY SECTION:
litkgp.ac.in. 3600 IN NS ns2.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns3.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns1.litkgp.ac.in.

;; ADDITIONAL SECTION:
```

Figure 19: Enter Caption

```
Activities Terminator Aug 31 23:10
Screenshot captured
You can paste the image from the clipboard.

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 1232
;; QUESTION SECTION:
;www.litkgp.ac.in. IN A

;; AUTHORITY SECTION:
litkgp.ac.in. 3600 IN NS ns2.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns1.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns3.litkgp.ac.in.

;; ADDITIONAL SECTION:
ns3.litkgp.ac.in. 3600 IN A 203.110.242.36
ns2.litkgp.ac.in. 3600 IN A 203.110.244.241
ns1.litkgp.ac.in. 3600 IN A 203.110.245.241

;; Query time: 125 msec
;; SERVER: 2001:dc0:1::12853(ns1.registry.in.) (UDP)
;; WHEN: Sat Aug 31 23:09:28 IST 2024
;; MSG SIZE rcvd: 147

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ dig @ns3.litkgp.ac.in. www.litkgp.ac.in
<<>> DIG 9.18.28-bubuntu0.22.04.1-Ubuntu <<>> @ns3.litkgp.ac.in. www.litkgp.ac.in
(2 servers found)
;; global options: +cmd
;; Got answer:
;;->>HEADER<<- opcode: QUERY, status: NOERROR, id: 58552
;; flags: qr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 3, ADDITIONAL: 4
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags: udp: 4096
; COOKIE: 335f23f04de7d9221d89e45366d3559a58529a4a781950fd (good)
;; QUESTION SECTION:
;www.litkgp.ac.in. IN A

;; ANSWER SECTION:
www.litkgp.ac.in. 3600 IN A 203.110.243.180

;; AUTHORITY SECTION:
litkgp.ac.in. 3600 IN NS ns2.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns3.litkgp.ac.in.
litkgp.ac.in. 3600 IN NS ns1.litkgp.ac.in.

;; ADDITIONAL SECTION:
ns1.litkgp.ac.in. 3600 IN A 203.110.245.241
ns2.litkgp.ac.in. 3600 IN A 203.110.244.241
ns3.litkgp.ac.in. 3600 IN A 203.110.242.36

;; Query time: 624 msec
;; SERVER: 64:ff9b:cb0e:f224f53(ns3.litkgp.ac.in.) (UDP)
;; WHEN: Sat Aug 31 23:09:56 IST 2024
;; MSG SIZE rcvd: 191

veer@veer-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$
```

Figure 20: Enter Caption