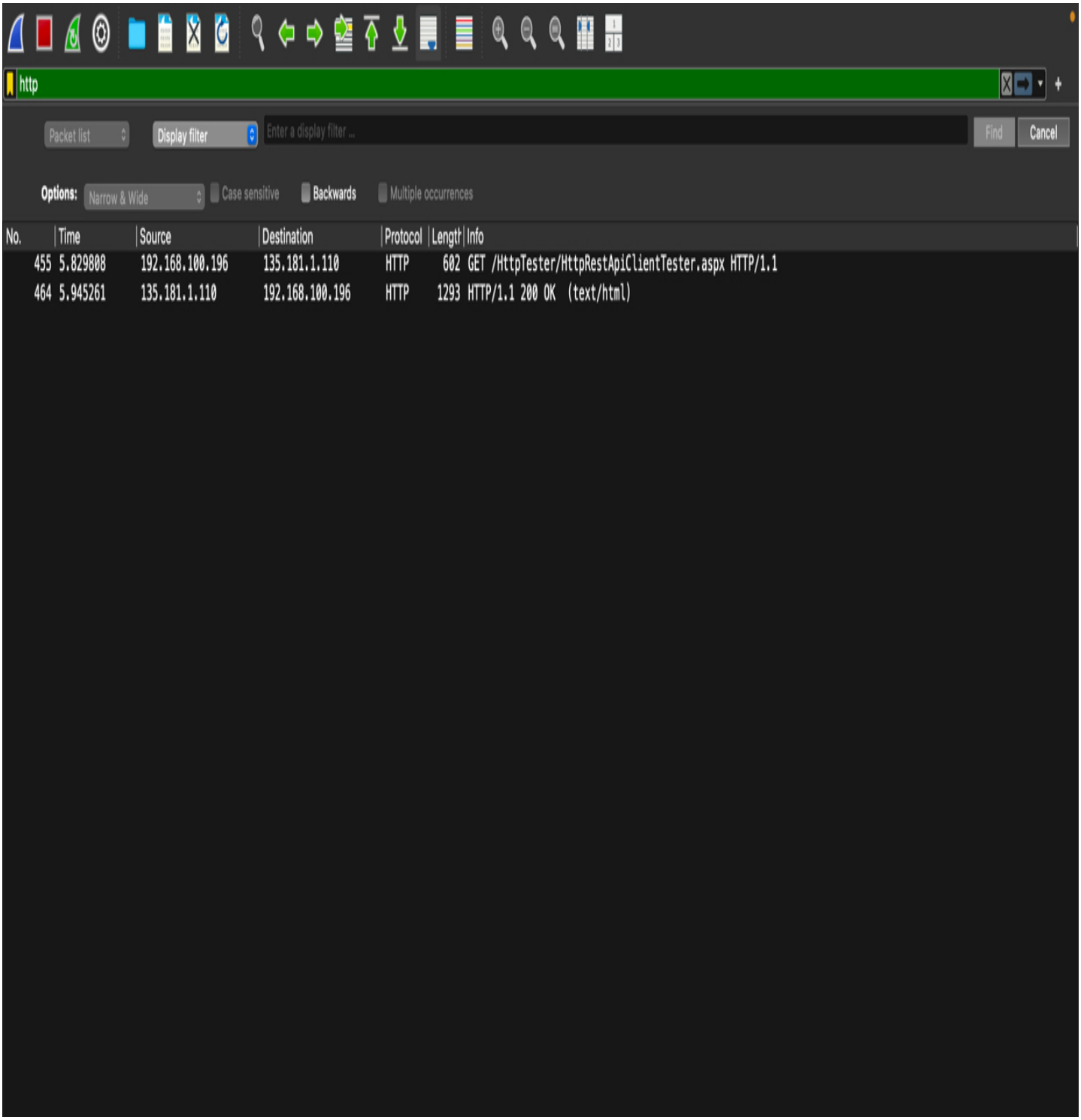
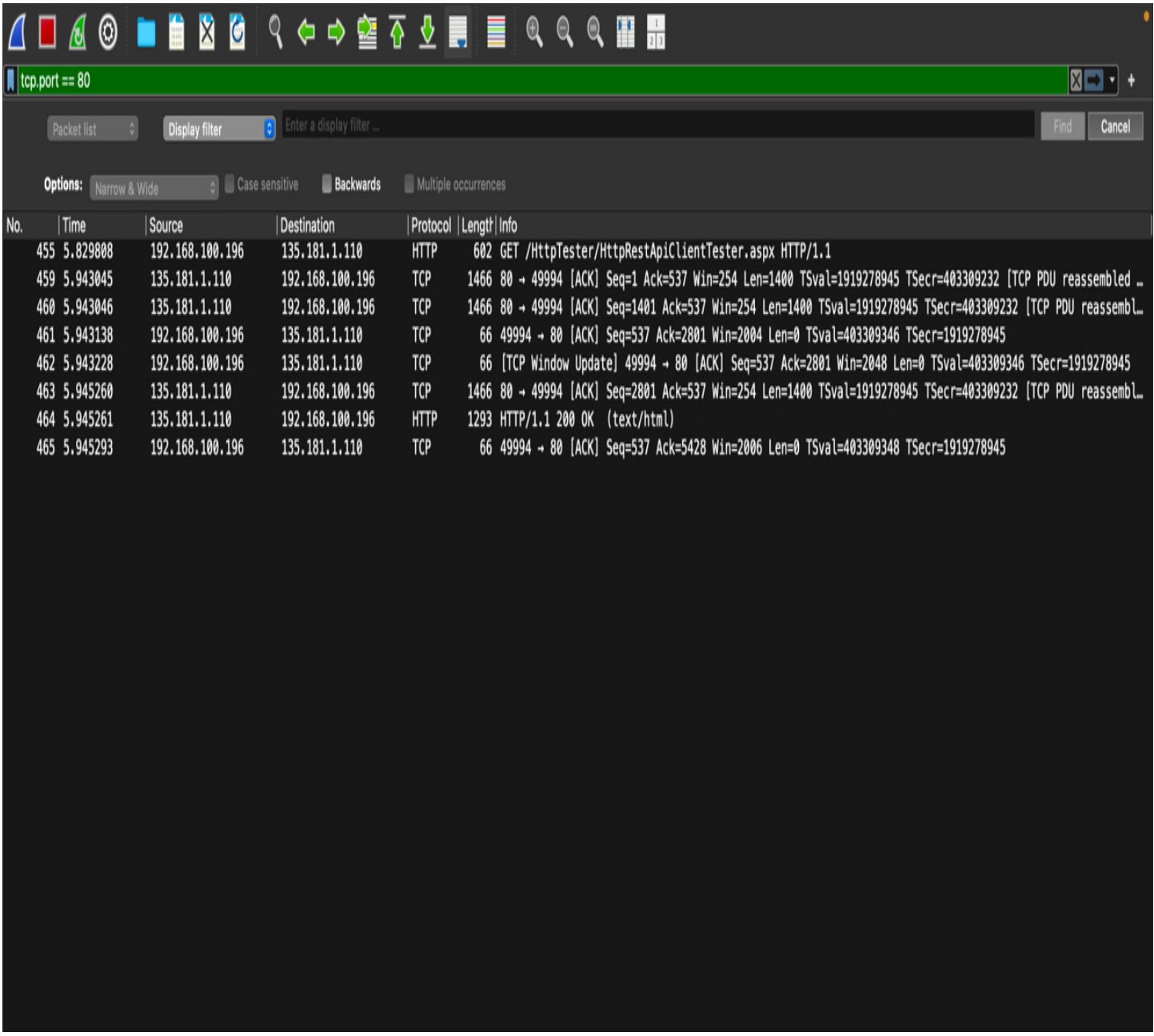
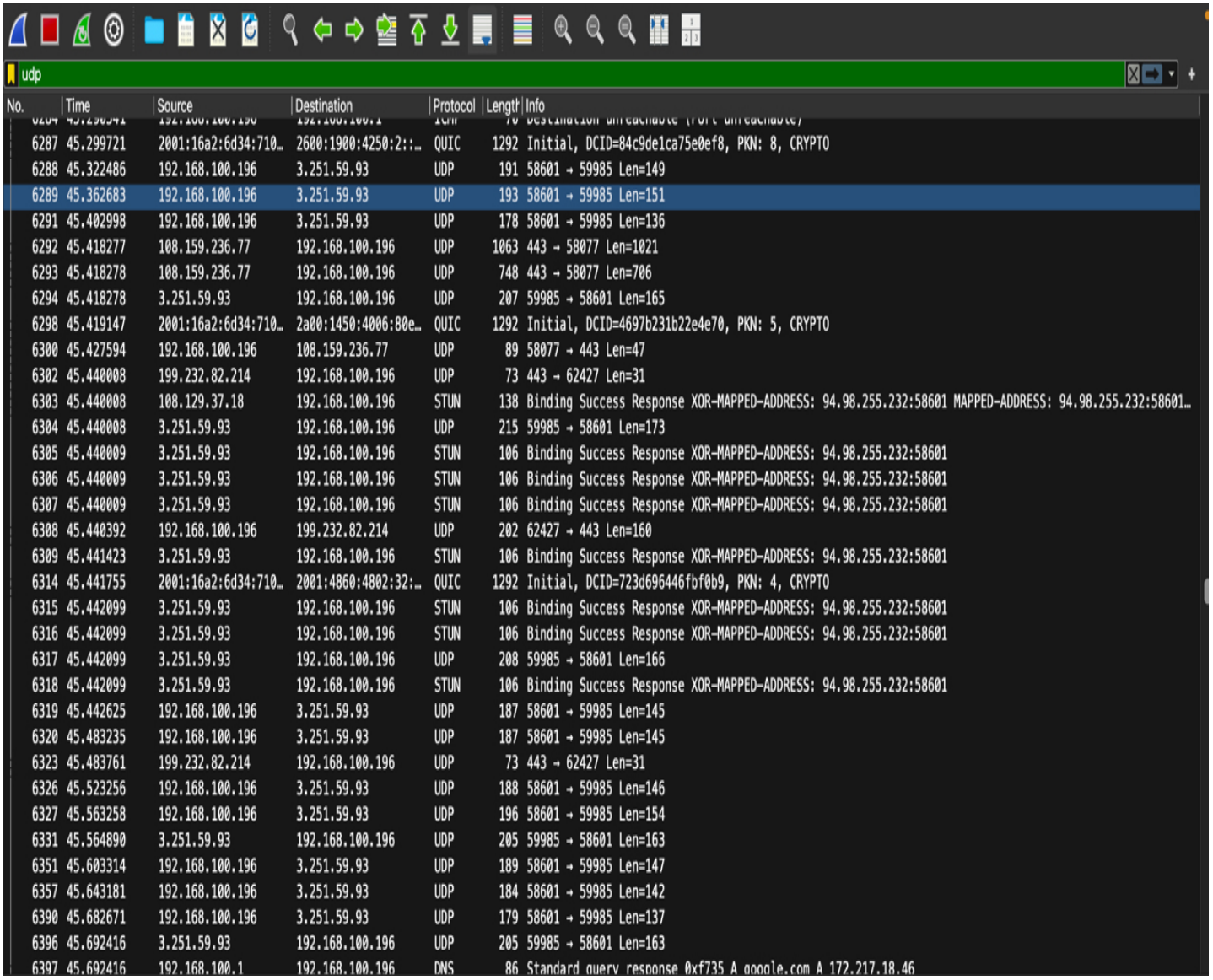
HTTP Request



TCP


tcp.port == 80
Packet list
Display filter
Enter a display filter ...
Find
Cancel
Options:
Narrow & Wide
Case sensitive
Backwards
Multiple occurrences
No. Time Source Destination Protocol Length Info
455 5.829808 192.168.100.196 135.181.1.110 HTTP 602 GET /HttpTester/HttpRestApiClientTester.aspx HTTP/1.1
459 5.943045 135.181.1.110 192.168.100.196 TCP 1466 80 → 49994 [ACK] Seq=1 Ack=537 Win=254 Len=1400 TSval=1919278945 TSecr=403309232 [TCP PDU reassembled …
460 5.943046 135.181.1.110 192.168.100.196 TCP 1466 80 → 49994 [ACK] Seq=1401 Ack=537 Win=254 Len=1400 TSval=1919278945 TSecr=403309232 [TCP PDU reassembl…
461 5.943138 192.168.100.196 135.181.1.110 TCP 66 49994 → 80 [ACK] Seq=537 Ack=2801 Win=2004 Len=0 TSval=403309346 TSecr=1919278945
462 5.943228 192.168.100.196 135.181.1.110 TCP 66 [TCP Window Update] 49994 → 80 [ACK] Seq=537 Ack=2801 Win=2048 Len=0 TSval=403309346 TSecr=1919278945
463 5.945260 135.181.1.110 192.168.100.196 TCP 1466 80 → 49994 [ACK] Seq=2801 Ack=537 Win=254 Len=1400 TSval=1919278945 TSecr=403309232 [TCP PDU reassembl…
464 5.945261 135.181.1.110 192.168.100.196 HTTP 1293 HTTP/1.1 200 OK (text/html)
465 5.945293 192.168.100.196 135.181.1.110 TCP 66 49994 → 80 [ACK] Seq=537 Ack=5428 Win=2006 Len=0 TSval=403309348 TSecr=1919278945

UDP


udp
No. Time Source Destination Protocol Length Info
6287 45.299721 2001:16a2:6d34:710… 2600:1900:4250:2::… QUIC 1292 Initial, DCID=84c9de1ca75e0ef8, PKN: 8, CRYPTO
6288 45.322486 192.168.100.196 3.251.59.93 UDP 191 58601 → 59985 Len=149
6289 45.362683 192.168.100.196 3.251.59.93 UDP 193 58601 → 59985 Len=151
6291 45.402998 192.168.100.196 3.251.59.93 UDP 178 58601 → 59985 Len=136
6292 45.418277 108.159.236.77 192.168.100.196 UDP 1063 443 → 58077 Len=1021
6293 45.418278 108.159.236.77 192.168.100.196 UDP 748 443 → 58077 Len=706
6294 45.418278 3.251.59.93 192.168.100.196 UDP 207 59985 → 58601 Len=165
6298 45.419147 2001:16a2:6d34:710… 2a00:1450:4006:80e… QUIC 1292 Initial, DCID=4697b231b22e4e70, PKN: 5, CRYPTO
6300 45.427594 192.168.100.196 108.159.236.77 UDP 89 58077 → 443 Len=47
6302 45.440008 199.232.82.214 192.168.100.196 UDP 73 443 → 62427 Len=31
6303 45.440008 108.129.37.18 192.168.100.196 STUN 138 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601 MAPPED-ADDRESS: 94.98.255.232:58601…
6304 45.440008 3.251.59.93 192.168.100.196 UDP 215 59985 → 58601 Len=173
6305 45.440009 3.251.59.93 192.168.100.196 STUN 106 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601
6306 45.440009 3.251.59.93 192.168.100.196 STUN 106 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601
6307 45.440009 3.251.59.93 192.168.100.196 STUN 106 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601
6308 45.440392 192.168.100.196 199.232.82.214 UDP 202 62427 → 443 Len=160
6309 45.441423 3.251.59.93 192.168.100.196 STUN 106 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601
6314 45.441755 2001:16a2:6d34:710… 2001:4860:4802:32:… QUIC 1292 Initial, DCID=723d696446fbf0b9, PKN: 4, CRYPTO
6315 45.442099 3.251.59.93 192.168.100.196 STUN 106 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601
6316 45.442099 3.251.59.93 192.168.100.196 STUN 106 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601
6317 45.442099 3.251.59.93 192.168.100.196 UDP 208 59985 → 58601 Len=166
6318 45.442099 3.251.59.93 192.168.100.196 STUN 106 Binding Success Response XOR-MAPPED-ADDRESS: 94.98.255.232:58601
6319 45.442625 192.168.100.196 3.251.59.93 UDP 187 58601 → 59985 Len=145
6320 45.483235 192.168.100.196 3.251.59.93 UDP 187 58601 → 59985 Len=145
6323 45.483761 199.232.82.214 192.168.100.196 UDP 73 443 → 62427 Len=31
6326 45.523256 192.168.100.196 3.251.59.93 UDP 188 58601 → 59985 Len=146
6327 45.563258 192.168.100.196 3.251.59.93 UDP 196 58601 → 59985 Len=154
6331 45.564890 3.251.59.93 192.168.100.196 UDP 205 59985 → 58601 Len=163
6351 45.603314 192.168.100.196 3.251.59.93 UDP 189 58601 → 59985 Len=147
6357 45.643181 192.168.100.196 3.251.59.93 UDP 184 58601 → 59985 Len=142
6390 45.682671 192.168.100.196 3.251.59.93 UDP 179 58601 → 59985 Len=137
6396 45.692416 3.251.59.93 192.168.100.196 UDP 205 59985 → 58601 Len=163
6397 45.692416 192.168.100.1 192.168.100.196 DNS 86 Standard query response 0xf735 A google.com A 172.217.18.46

	TCP or UDP	Reasons
Reliability and Connection Establishment	TCP	Ensures reliable communication by establishing a connection and acknowledging received data.
Data Integrity and Ordering	TCP	Guarantees data arrives in order and without loss due to error-checking and retransmissions.

Task 2: Identify the use Cases and Performance of TCP and UDP.

	TCP	UDP
Use cases	File transfer (e.g., FTP), emails (SMTP), web browsing (HTTP/HTTPS).	Real-time video/audio streaming, online gaming, DNS queries.
Performance	Slower due to connection setup, error correction, and data acknowledgment.	Faster because it is connectionless and doesn't check