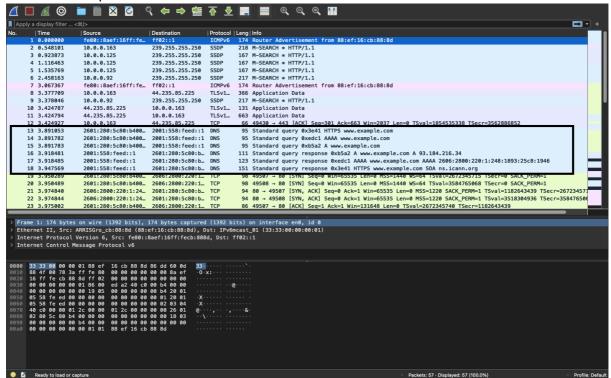
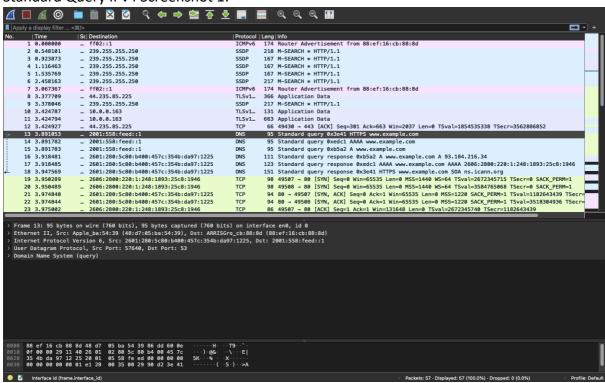
## Quiz 2

## Question 1

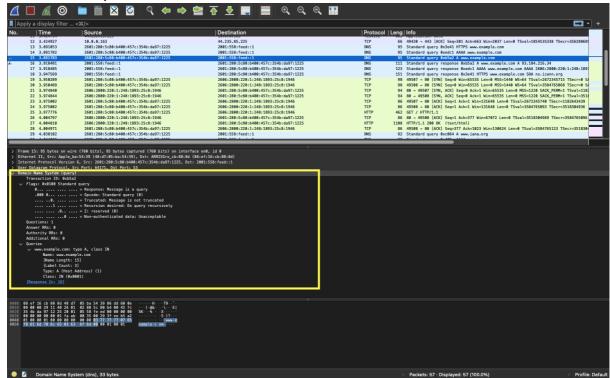
Screenshot of my DNS Query and response for www.example.com webpage with HTTPS, IPV4 and IPv6 packets :



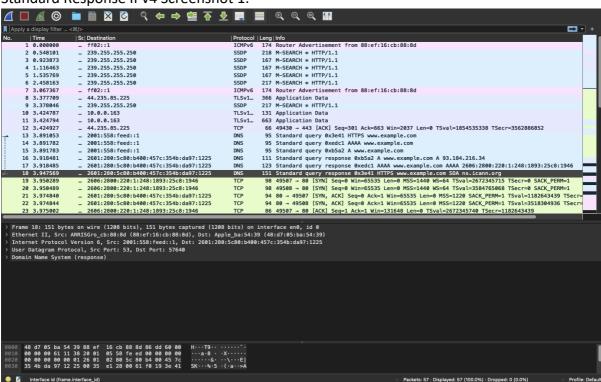
## Standard Query IPv4 Screenshot 1:



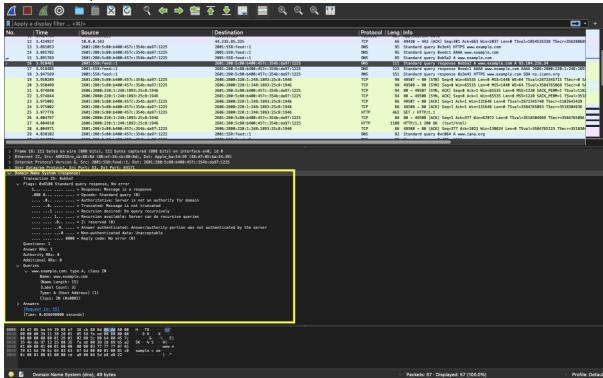
### Standard Query IPv4 Screenshot 2:



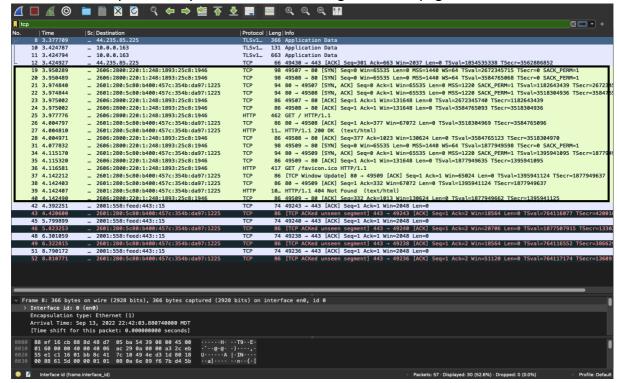
## Standard Response IPv4 Screenshot 1:



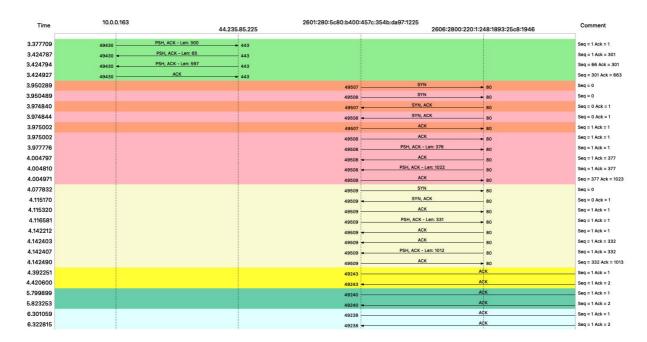
## Standard Response IPv4 Screenshot 2:



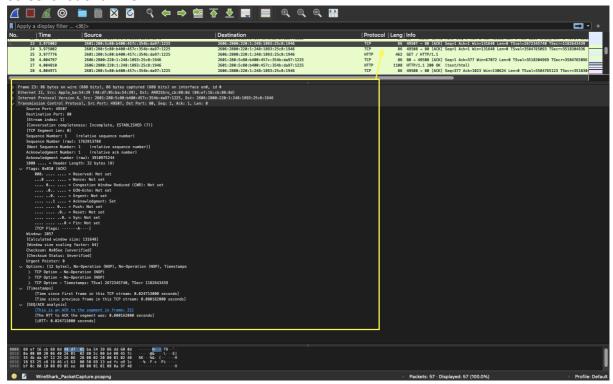
### Screenshot of my TCP 3-way handshake connecting to the webpage:



#### TCP Flow Chart Obtained for Statistics is as follows:



## Screenshot of an ACK



# Detailed View of ACK Packet with Acknowledgement bit set to 1:

As seen in the screenshot attached, please find the sequence and acknowledge number as follows:

Sequence Number: 1 (relative sequence number)

Sequence Number (raw): 1808727242

Acknowledgment Number: 1 (relative ack number)

Acknowledgment number (raw): 1110471532

Below screenshot shows the HTTP packet where html file from server is loaded into browser

```
Strame 27: 1188 bytes on wire (8864 bits), 1188 bytes captured (8864 bits) on interface end, id 0

| Frame 27: 1188 bytes on wire (8864 bits), 1188 bytes captured (8864 bits) on interface end, id 0
| Ethernet II, Src: AMISSOR_obs8886 (881ef1)fiction88.801, bats (Apple_bas141)9 (481e71361bas1419)
| Internet Protocol Version 6, Src: 2866:2889228112481189132561346, bats 28611289154391
| Internet Protocol Version 6, Src: 2866:2889228112481189132561346, bats 286112891528154939
| Wighertext Transfer Protocol
| Wighertext Transfer Protocol
| Wighertext Transfer Protocol
| Wighertext Transfer Protocol
| Girrup71.1 280 @Kr/nn
| (Internet Tale (Char/Sepence): HTTP/1.1 280 @Kr/nn
| (Internet Tale (Char/Sepence): HTTP/1.1 280 @Kr/nn
| (Internet Tale (Char/Sepence): HTTP/1.1 280 @Kr/nn
| Group: Sequence)
| Response Version: HTTP/1.1
| Status Code: 288
| Bistus Code Secription: OK|
| Content-Anodoning: piphyinn
| Accopt-Anapos: bytes/vin
| Accopt-Anapos: bytes/vin
| Accopt-Anapos: bytes/vin
| Accopt-Anapos: bytes/vin
| Content-Honding: piphyinn
| Accopt-Anapos: bytes/vin
| Eagle: 3147326947*vin
| Eagle: 3147326947*vin
| Eagle: 3147326947*vin
| Korden: HTTV/n
| Content-Honding: 6481/vin
| (Content-Length: 6481)
| Wight Response 1/11 | Time since request: 6, 822264889 seconds] |
| Request URI intsp://waw.example.com/) |
| File Data: 2158 bytes |
| Line-Seased text data: text/html (46 Lines) |
| Cinculation | Content-Marchine | Co
                                                                                                                                water destreasing-formation of the content of the c
                                                                                           In div (in degri)n width degri)n width degri)n width degri)n width degri)n general degri (in degri)n geding: Zem; in background-clors #dfdff; in border-radius: 0.5cm; in box-shadow: Zpx 3px 7px 2px rgbs(0,0,0,0.02); in box-shadow: Zpx 3px 7px 2px rgbs(0,0,0.02); in
```

Detailed text/HTML code obtained as a line-based text data:

```
LEST-MOSITION: THU, IT DOE: TRIP #7:18:26 DMIN/YN
Server: ECS (dau/SDAI)/Yn
X-Cache: HITN-IN
Content-Length: 648 Min/Nn
[Content-Length: 648 Min/Nn
[Content Length: 648 Min/Nn
[Content Length: 648 Min/Nn
[Time since request: 0.827834600 seconds]
[Request: In: Trame: 23]
[Request: Lin: Trame: 23]
[Request: URI: http://www.example.com/]
Content-encoded entity body (grapi): 648 bytes > 1256 bytes
TIVE WAIN** TANK MIN/NN
Line-Sand Exect Main: Carthall (64 Lines)

**Content-encoded entity body (grapi): 648 bytes > 1256 bytes

**Ulsa-Sand Exect Main: Carthall (64 Lines)

**Content-encoded entity body (grapi): 649 bytes > 1256 bytes

**Line-Sand Exect Main: Carthall (64 Lines)

**Content-encoded entity body (grapi): 649 bytes > 1256 bytes

**Line-Sand Exect Main: Carthall (64 Lines)

**Content-encoded entity body (grapi): 649 bytes > 1256 bytes

**Line-Sand Exect Main: Carthall (64 Lines)

**Content-encoded entity body (grapi): 649 bytes > 1256 bytes

**Line-Sand Exect Main: Carthall (64 Lines)

**Content-encoded entity body (grapi): 649 bytes > 1256 bytes

**Line-Sand Exect Ministry (graph M
                                                                                                                                                                                                                   cutterbrampis Domaine/fitter\n
casts dharset*uff-8" />\n
casts dharset*uff-8" />\n
casts http-esvic*Center-type" contents*text/html; charsetvuff-8" />\n
casts name*u*ineport" contents**ufthedevice-width, initial-scale=1" />\n
casts name*u*ineport" contents**ufthedevice-width, initial-scale=1" />\n
body {\n
background-color: #f8f8f2;\n
margin: 8\n
margin: 8\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica, Arial, sans-serif;\n
font-fmily: -apple-system, system-ui, BlinMmacSystemFont, "Segoe UI", "Open Sans", "Melvetica Newe", Melvetica Newe ", Mel
                                                                                                                                                                                                                   text-decoration: none;\n
\n
@media (max-width: 700px) (\n
div (\n
margin: 0 auto;\n
width: auto;\n
}\n

                                                                                                                                                                                                                          /\n
</style> \n
ead>\n
                                                               Help
```

# List the values your computer used for:

a. Source MAC Apple\_ba:54:39 (48:d7:05:ba:54:39)
b. Destination MAC ARRISGro\_cb:88:8d (88:ef:16:cb:88:8d)
c. Source IP 2601:280:5c80:b400:457c:354b:da97:1225
d. Destination IP 2606:2800:220:1:248:1893:25c8:1946

e. Source TCP Port 49508 f. Destination TCP Port 80