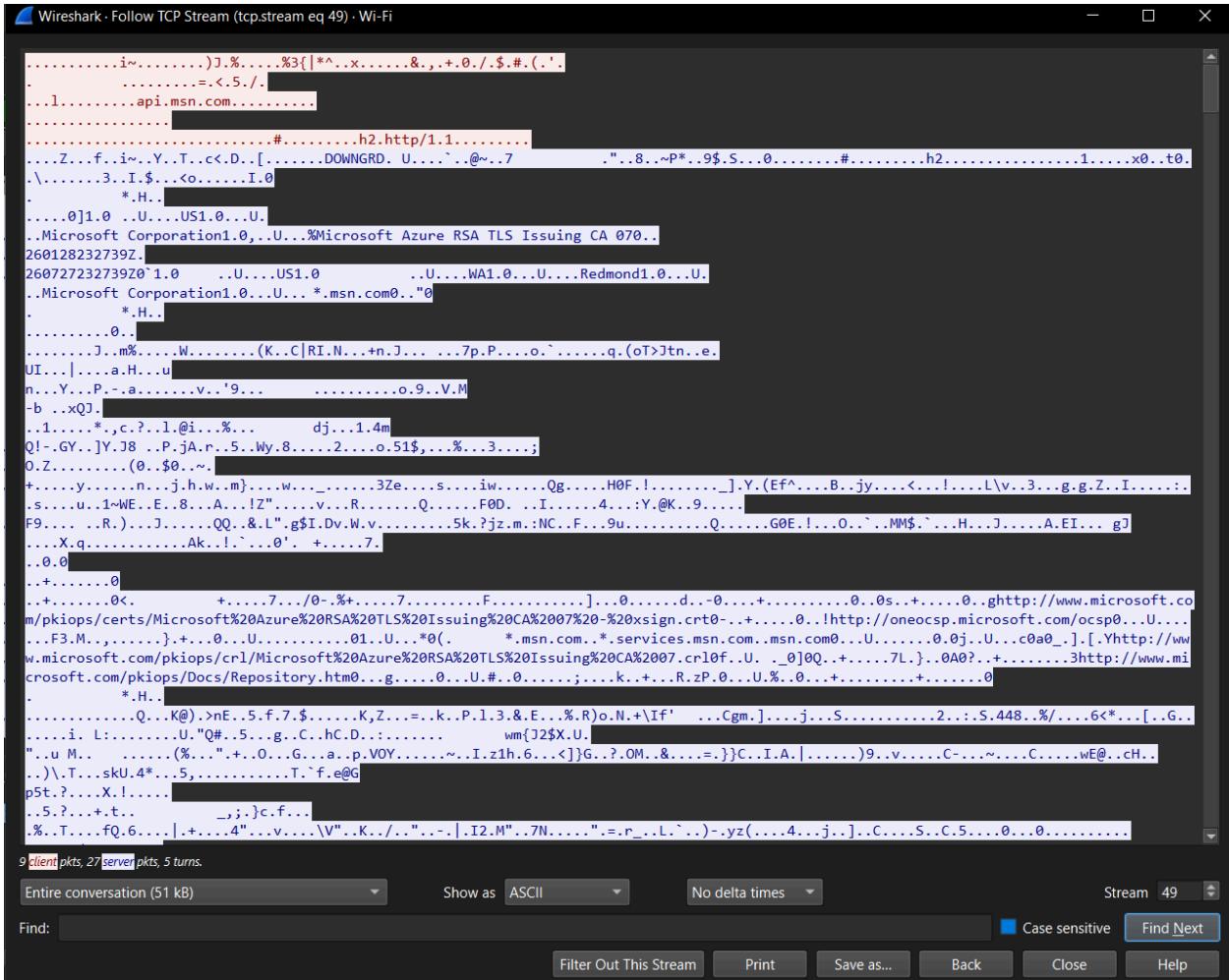


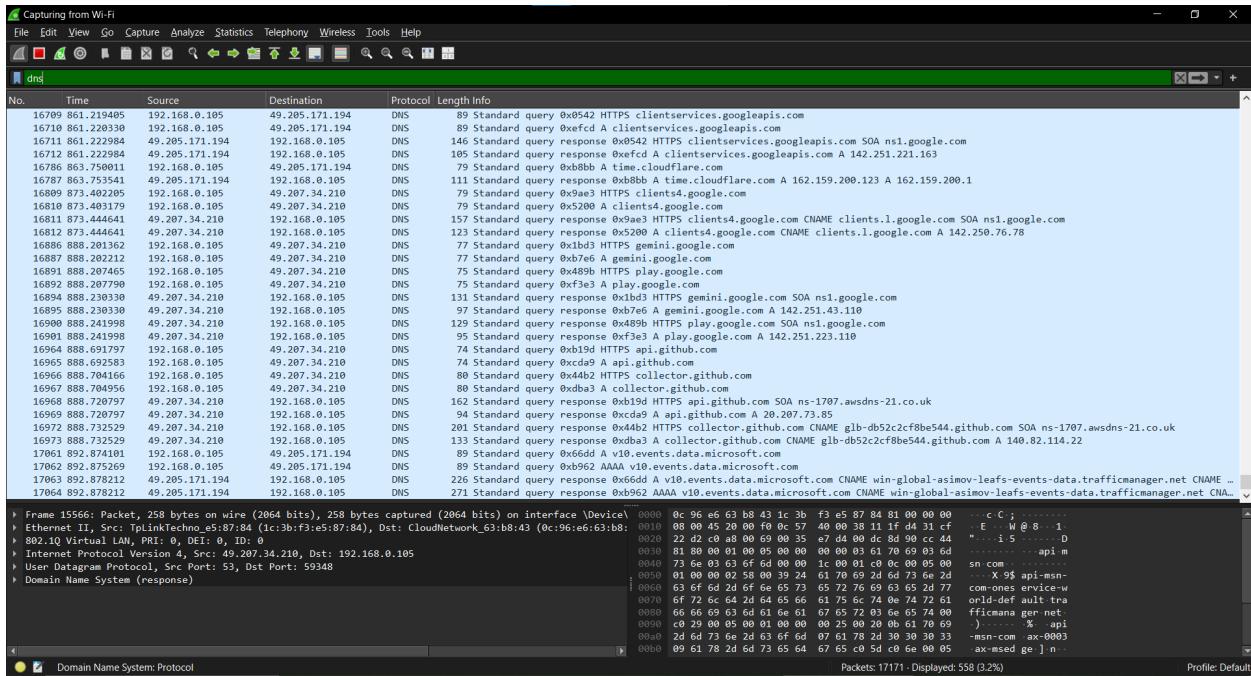
TASK 3

1. Observing a three-way TCP Handshake



A 3 way handshake.

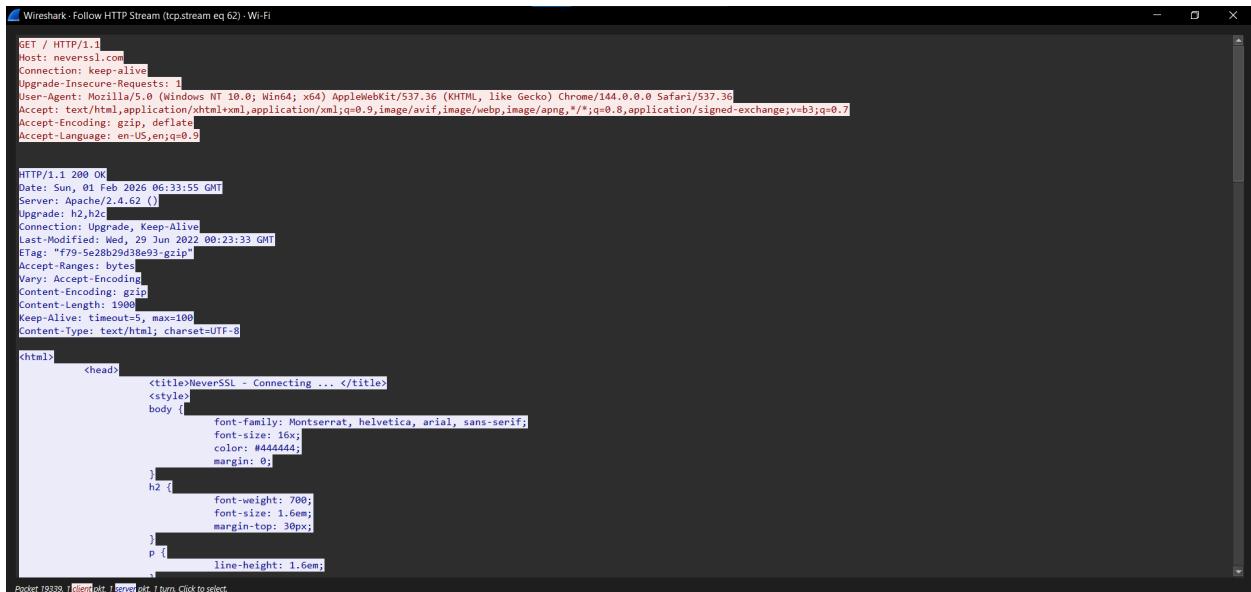
2. DNS Query



Type dns in the bar to get all dns queries.

As we can see there are both standard query and response queries.

3. HTTP vs HTTPS



This is a http file which is not encrypted as we can see the actual html code.

```
Wireshark - Follow TCP Stream (tcp.stream eq 2) - Wi-Fi

....c
....k..M..t,
....E..]..VIO.BOD..3,
....N..Q...~..H.B..d.D,
....p..IR.g...Z
....+.^..Cud..G..{
...."K..wG3..e..e..e
....RKe...DDE...B.I..~&W
....)Q...~..b.Hh...
....3..kf..8..W..8|b
....MW.WI..g...V1.
....6..-1
....ez..F
....1..1..$..o
....t..2G..]..k@..]
....b...j..a.eL.yf
...."C..K(T..?..(Z..1..Uj..:=..h..#K..g0)..9...d..l..Na..T..-..F..e..k..y..U..,%..h..0.....u...2..Ln..x..W..U..y..n..,..4..d
....J..Z..&...7..E7..T..(\..P..2..$..&.:.[.....q1.....(..E<..f..$.<..:..A..v..
....U..b..{m\..I..I..T..$..]
....<..1..8..J..(.....2P1..).).,...(KX ..z*..v-.,..5..]
....J..-/..C..t..%S..z..P..P..g..^M..\\..@..`..V..qN..hZ..0$..N..p9..1..\\..1..7..*..Y..?D..,..9..,..*,..]
....J..r..,..1
....no..0..%
....@..]
....)....,..06..,..d..]
....Ag..]
....n.zpk...:(

.....g)...1....<..O..]
....]..?....]..c'H$#
....]..z...f..M..n..,..E..1
....r..Kx..c)..*..=.._
....a..h..U.....h..,..,..2..]
....9..c..L..I..f..]
....,..o..,..,..0
....J..T..M..,..]
....T..,..x..p[..,..]
....~^..,..'X..,..&..c..]
....a..p..,..M..^..2
....f..4..,..H..T..,..sq..]
....>..
```

This is a https file which is encrypted as we can see unknown language.