21CY682- IP LAB ASSIGNMENT 4

Analysing TCP and UDP using Wireshark

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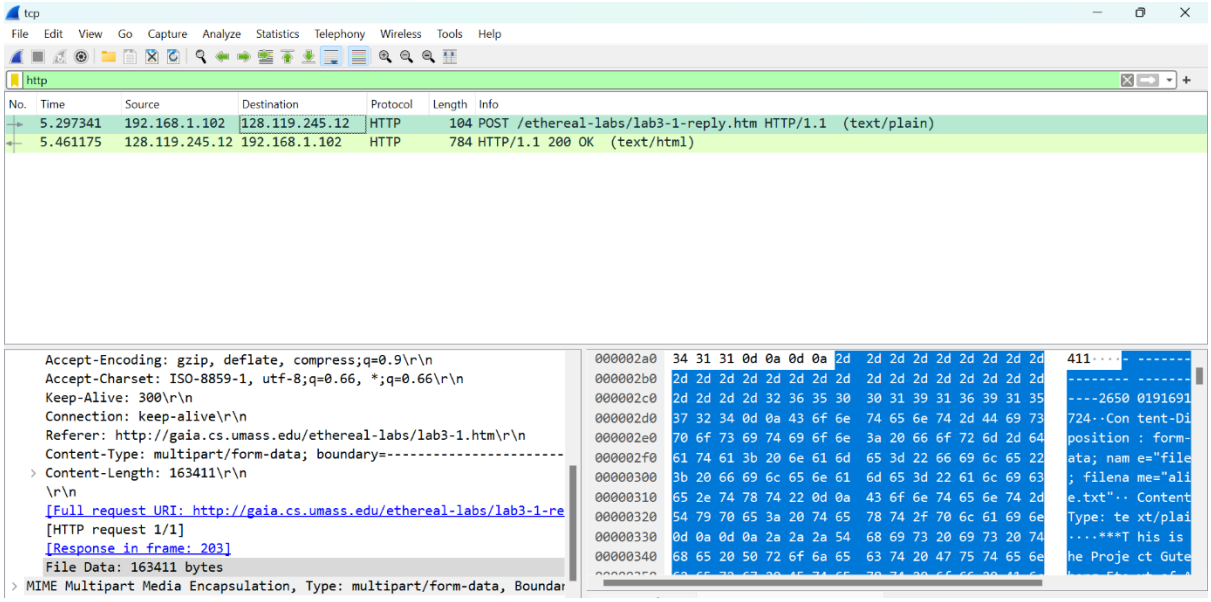
AIM: Analyze TCP and UDP using wireshark

Tools: Wireshark

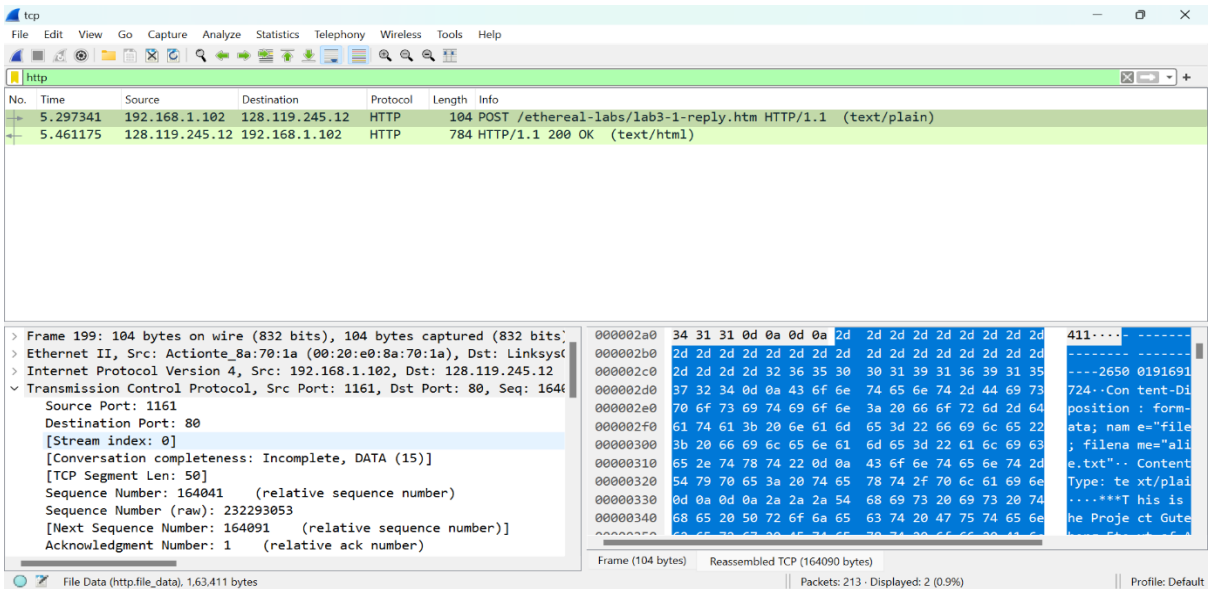
TCP

1 a)IP Addresss:192.168.1.103, source port:1161



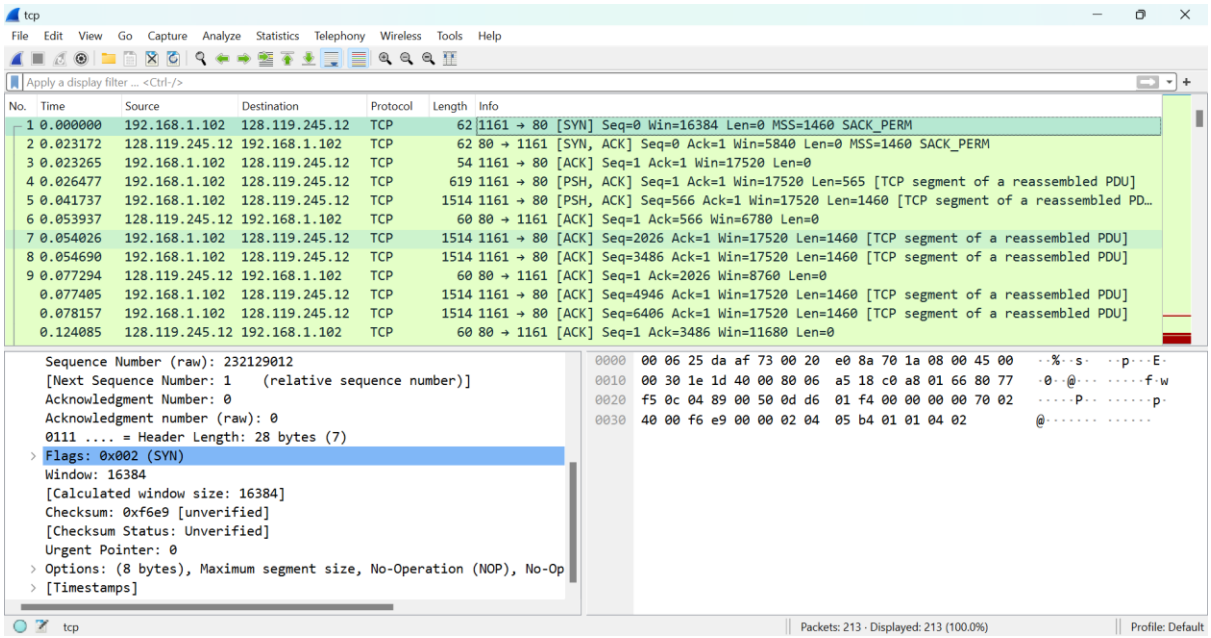
b)IP Address:128.119.245.12

Destination Port:80



c)Sequence Number:0

[SYN] -0x002

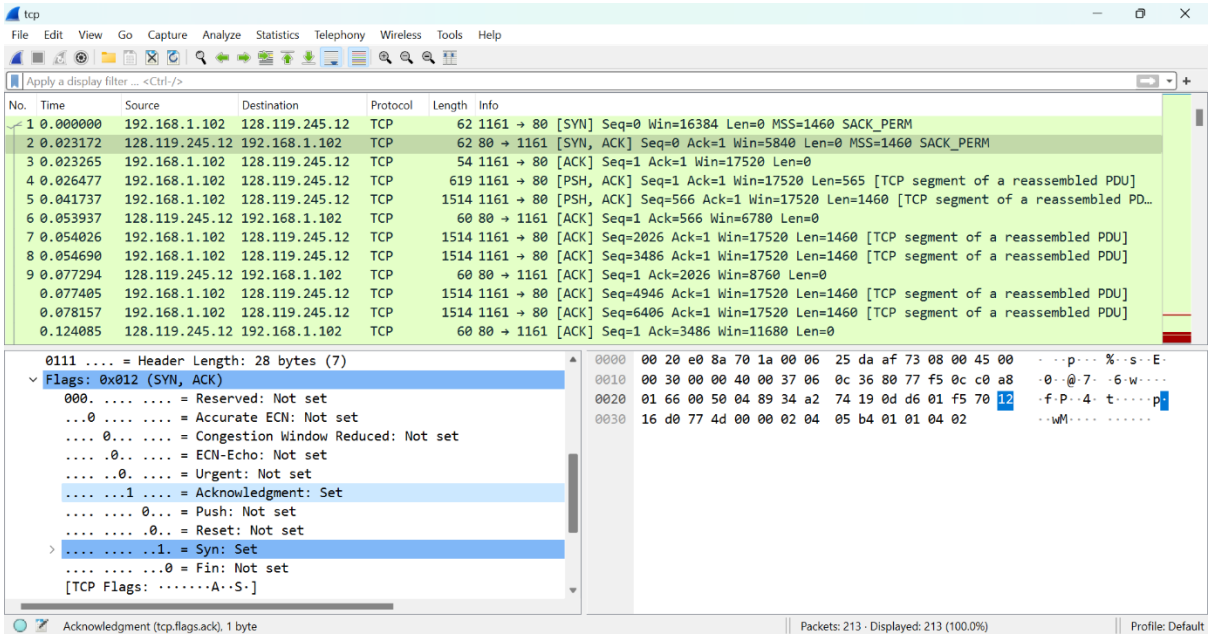


d)Sequence Number:0 and Acknowledgement Number:1

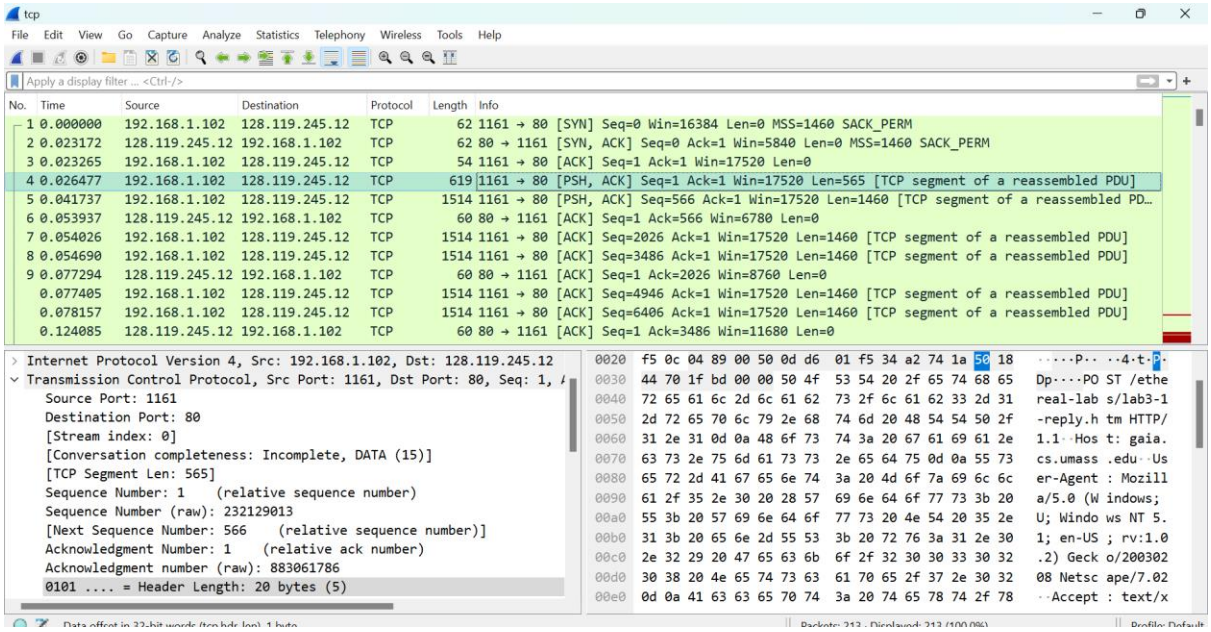
New acknowledgement number is the incremented value of previous sequence number.

New sequence number is the previous acknowledgment number.

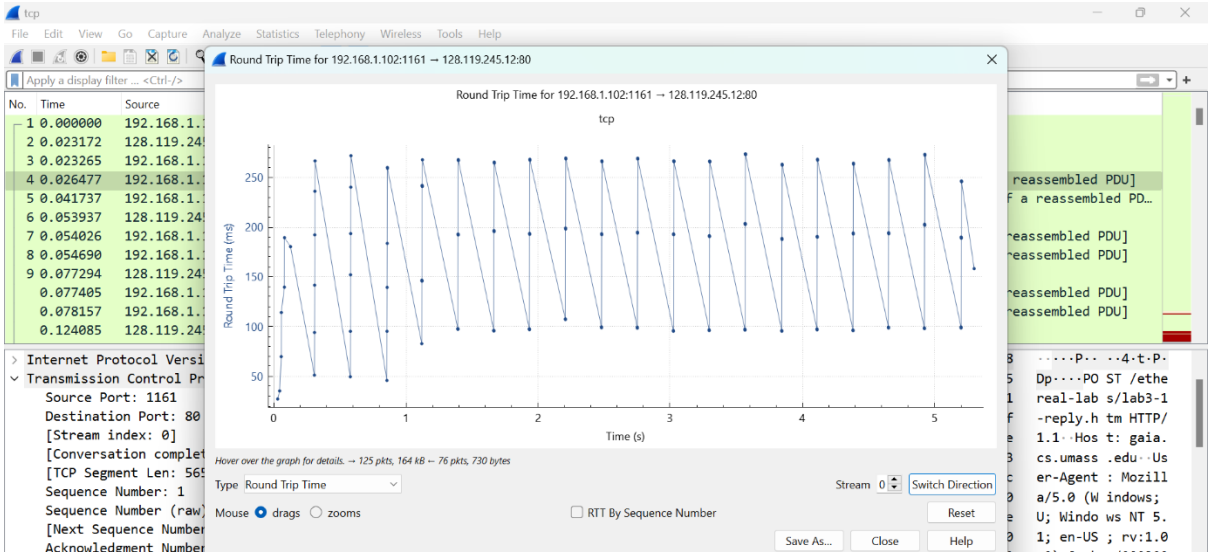
[SYN,ACK]



e)Sequence number is 1



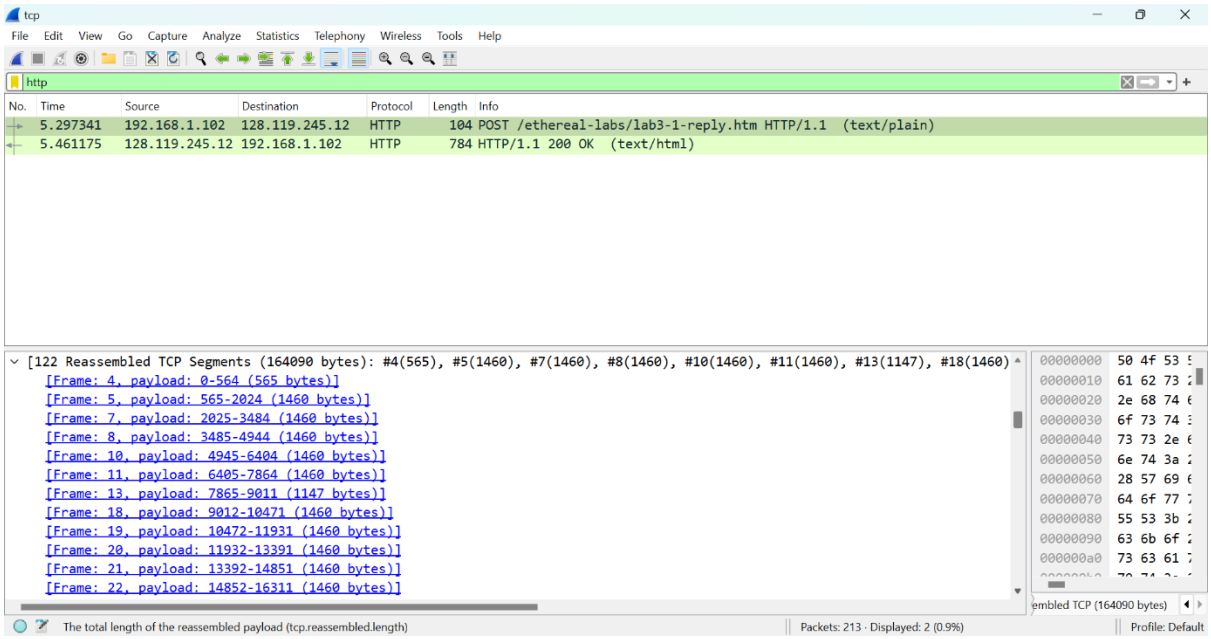
f) RTTxTime Graph

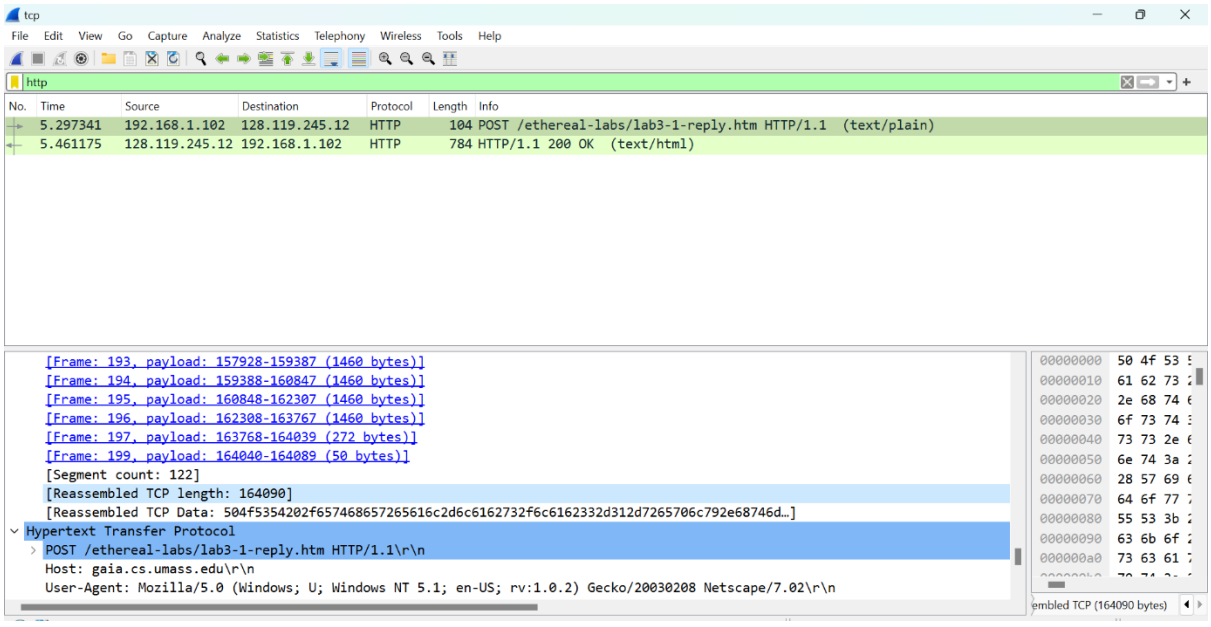


g)#4- 565

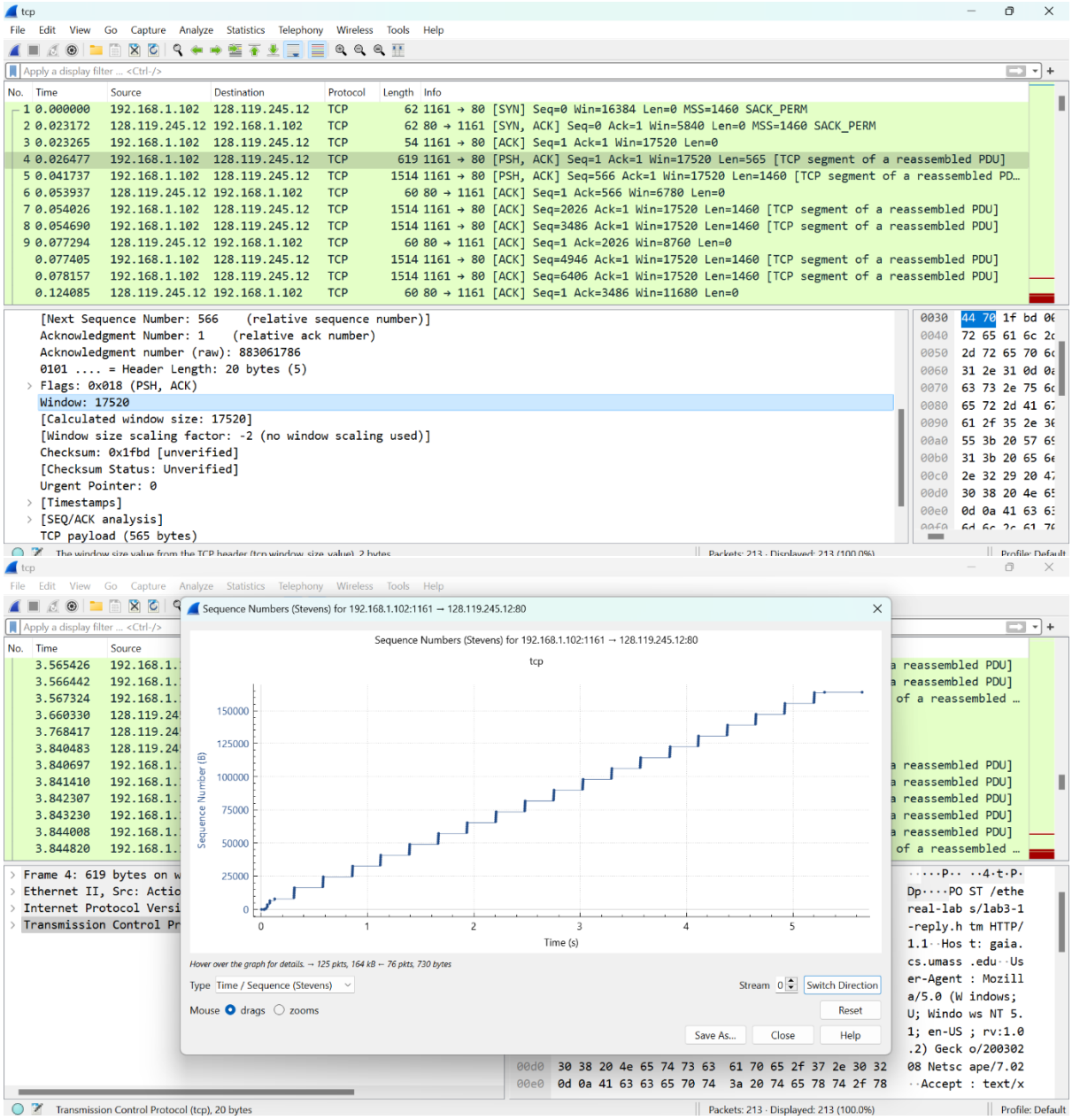
#5,#7,#8,#10,#11- 1460

Total Length: 164090





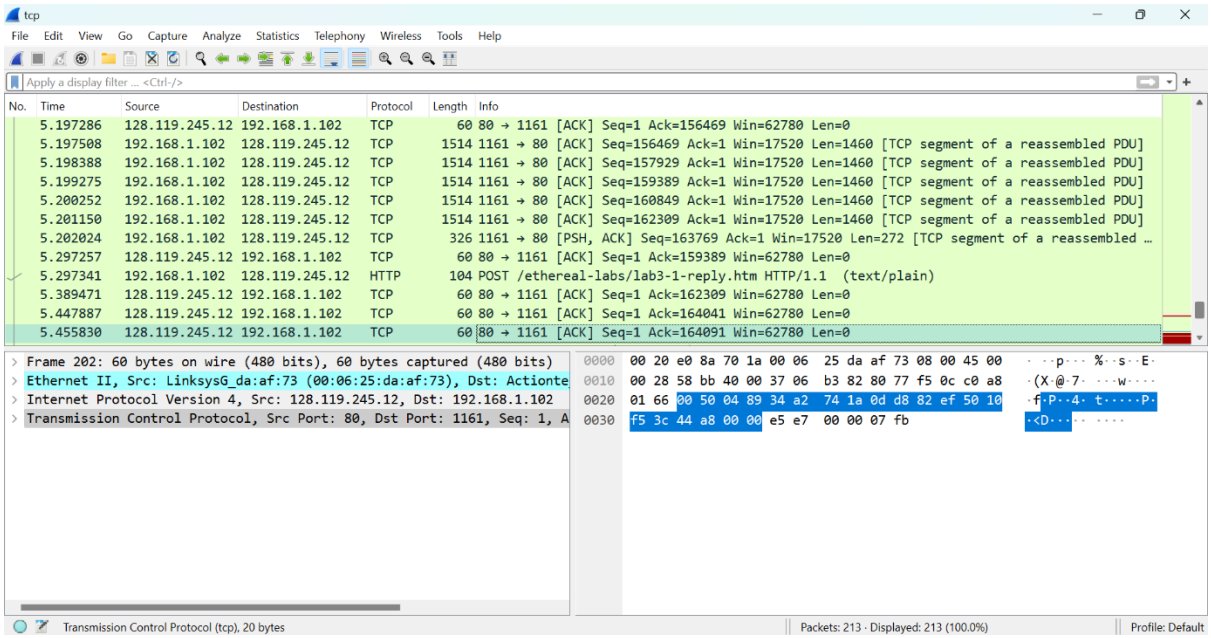
h) Data has not been transmitted since there is no drop in the Sequence NumberXTime graph and no sequence number are repeated in the data.

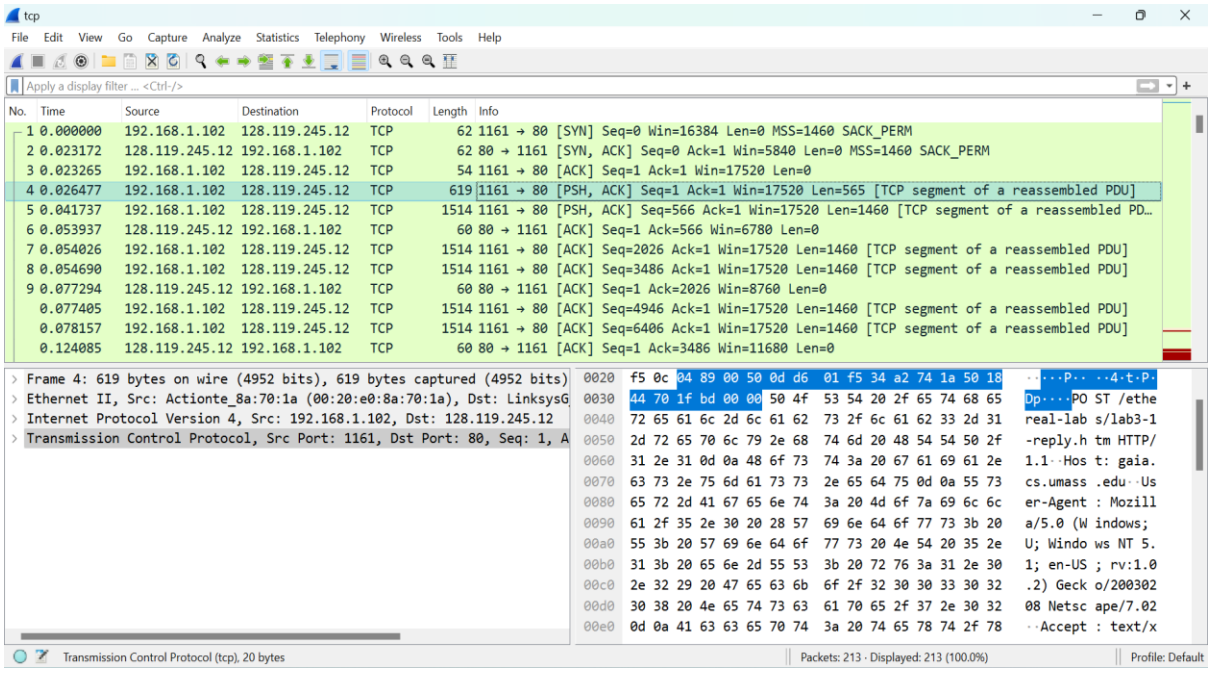


i)throughput=No of bytes transferred/time

=[164091(Final Ack)-1(Initial Ack)]/[5.455(Final timestamp)-0.0264(Initial timestamp)]

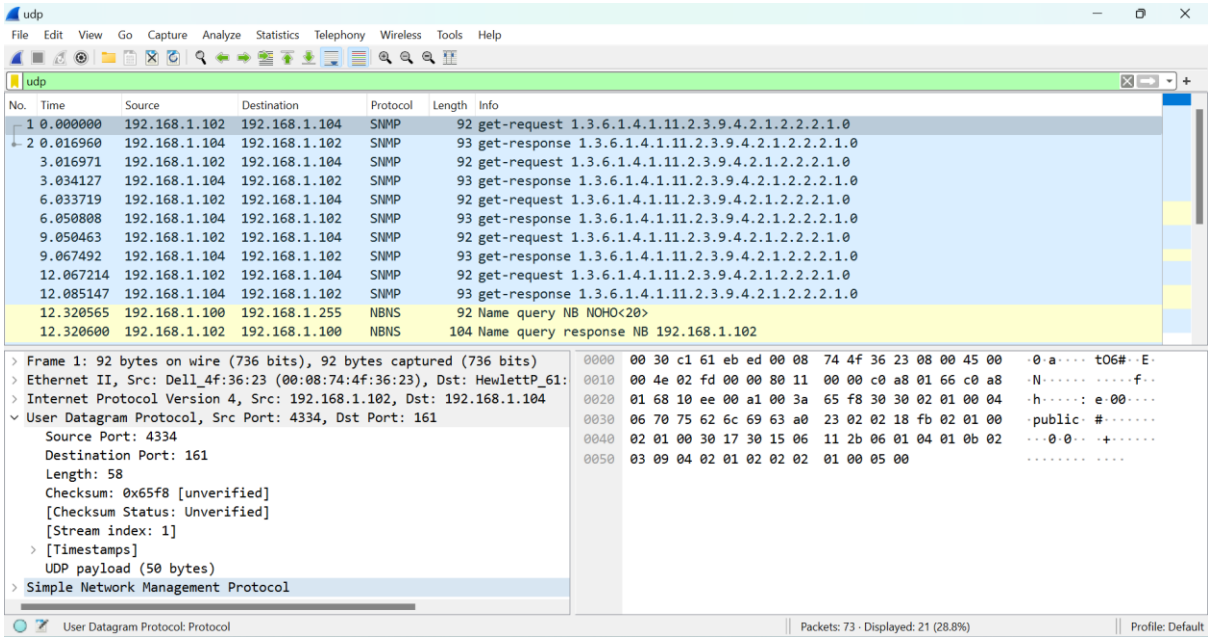
=30,224 bytes=30.224KB



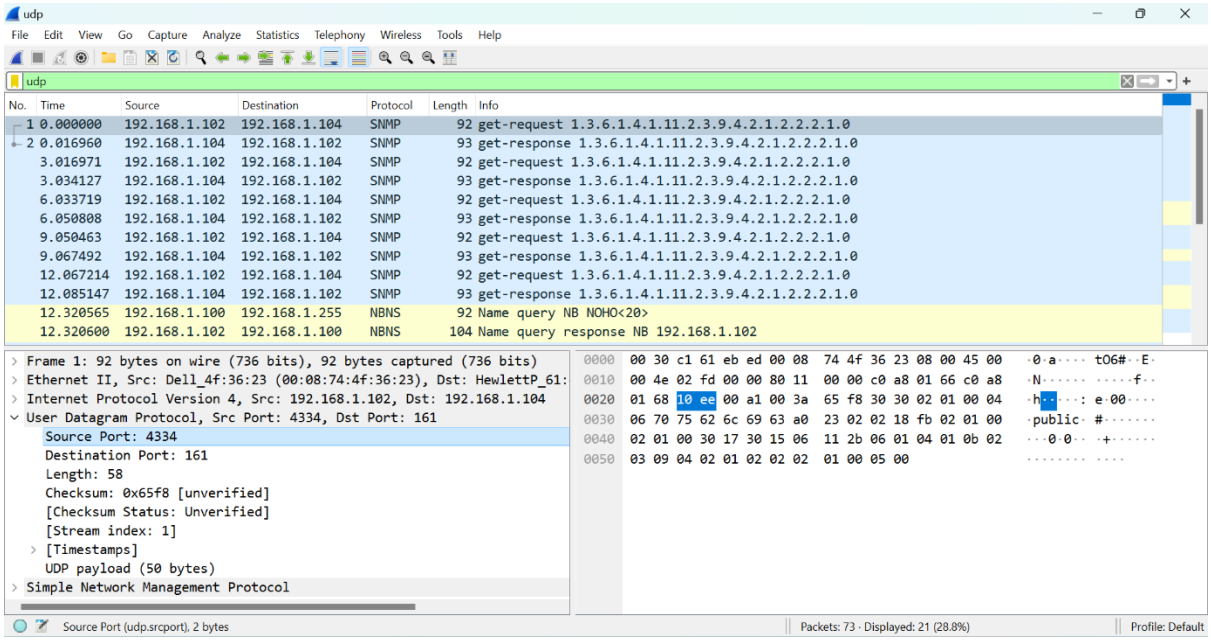


UDP

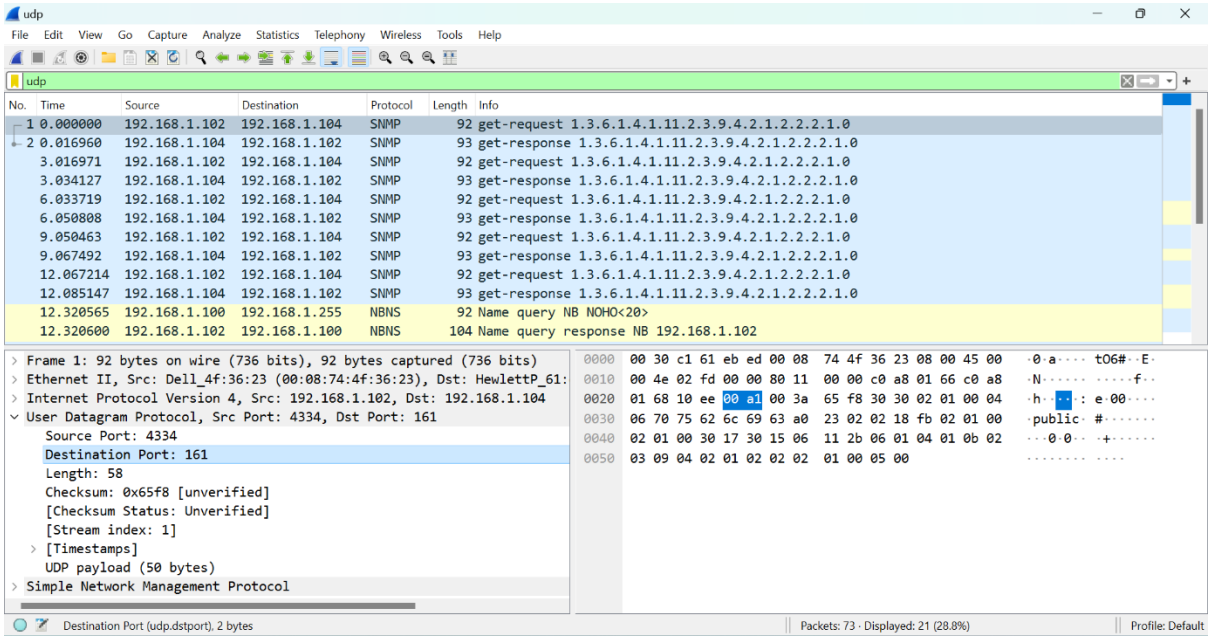
j)4 fields:Source Port,Destination Port,Checksum,Length



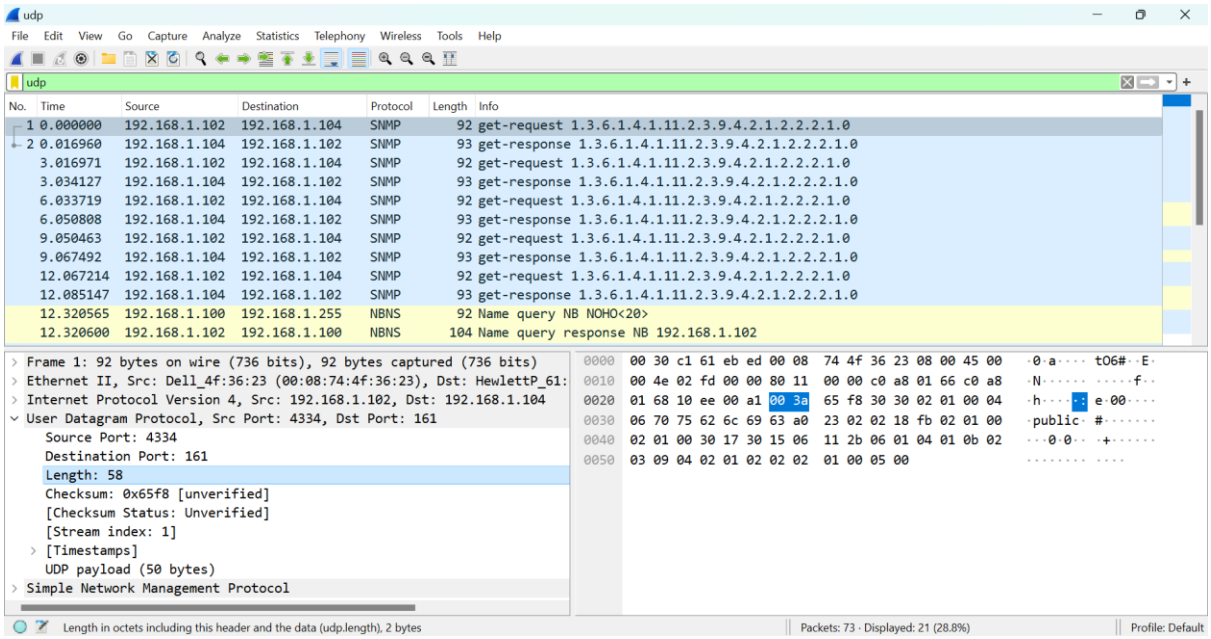
k)Source Port :2 Bytes



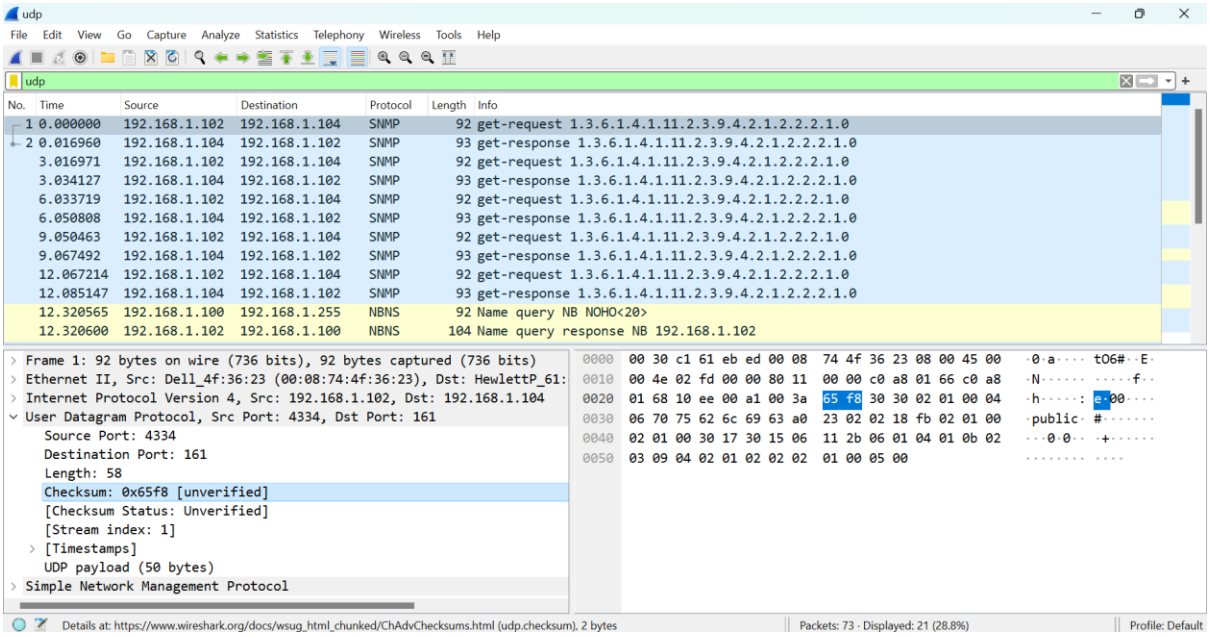
Destination Port:2 Bytes



Length:2 Bytes



Checksum:2 bytes

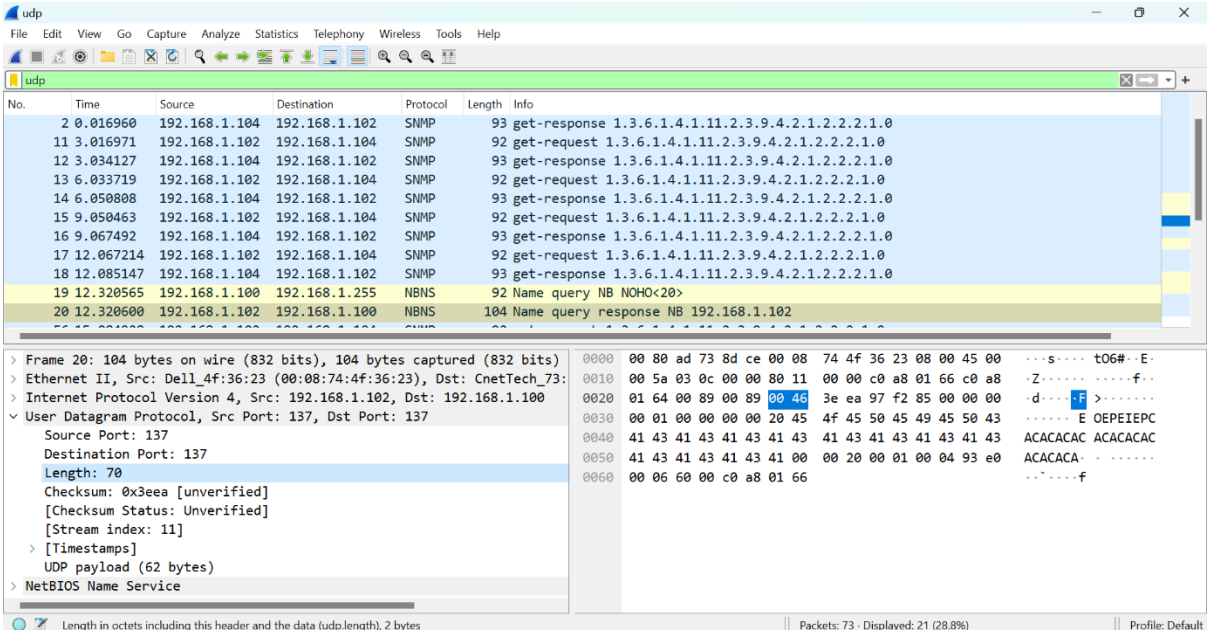


l) Data+header = length

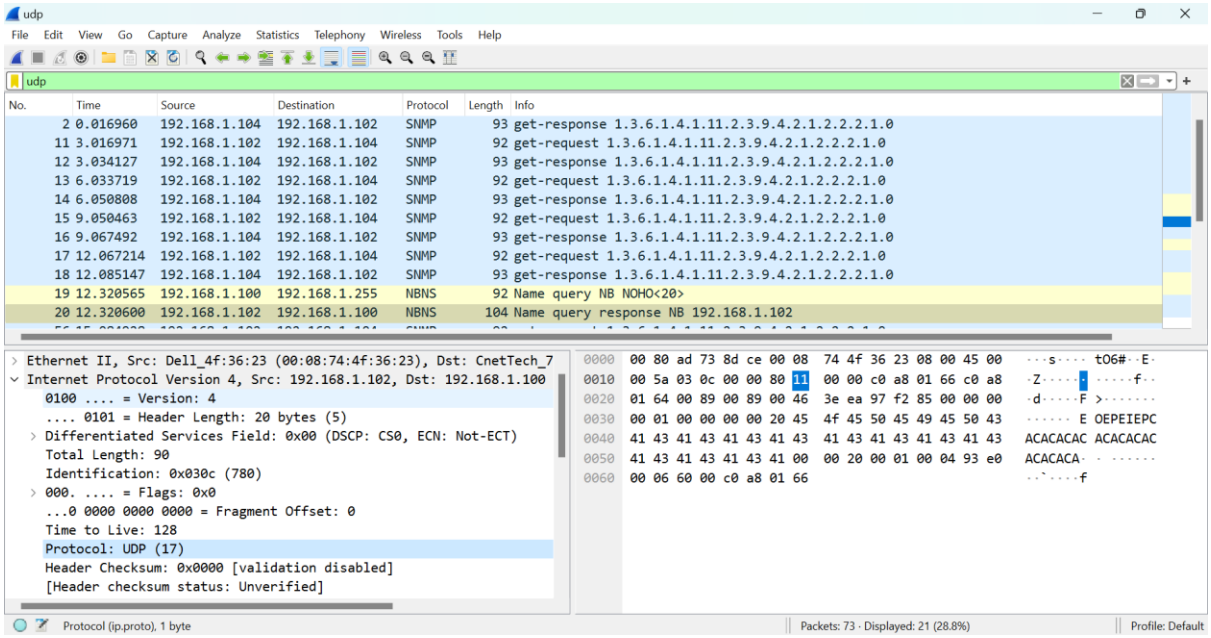
Header=Source port+Destination Port+Length+Checksum=2+2+2+2=8 Bytes

Data= 62 Bytes

Value of the Length Field is 62+8 = 70 Bytes



m)Protocol Number of UDP is 17 in decimal and 11 in Hexadecimal



n)Source code of the packet is destination code for the second packet and vice versa.