TASK2:

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	127.0.0.1	127.0.0.1	TCP	56	55138 → 6667 [SYN] Seq=0 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM=1
2	0.000032	127.0.0.1	127.0.0.1	TCP	56	6667 → 55138 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=65495 WS=256 SACK_PERM=1
3	0.000085	127.0.0.1	127.0.0.1	TCP	44	55138 → 6667 [ACK] Seq=1 Ack=1 Win=2619648 Len=0
4	0.000310	127.0.0.1	127.0.0.1	IRC	48	Request (azha)
5	0.000321	127.0.0.1	127.0.0.1	TCP	44	6667 → 55138 [ACK] Seq=1 Ack=5 Win=2619648 Len=0
6	0.000347	127.0.0.1	127.0.0.1	IRC	49	Request (0341)
7	0.000358	127.0.0.1	127.0.0.1	TCP	44	6667 → 55138 [ACK] Seq=1 Ack=10 Win=2619648 Len=0
8	0.000557	127.0.0.1	127.0.0.1	IRC	59	Response (User)
9	0.000573	127.0.0.1	127.0.0.1	TCP	44	55138 → 6667 [ACK] Seq=10 Ack=16 Win=2619648 Len=0
10	0.002142	127.0.0.1	127.0.0.1	TCP	44	55138 → 6667 [FIN, ACK] Seq=10 Ack=16 Win=2619648 Len=0
11	0.002158	127.0.0.1	127.0.0.1	TCP	44	6667 → 55138 [ACK] Seq=16 Ack=11 Win=2619648 Len=0

```
    Acknowledgment Number: 10    (relative ack number)
    Acknowledgment number (raw): 2185269164
    0101 .... = Header Length: 20 bytes (5)
  > Flags: 0x018 (PSH, ACK)
    Window: 10233
    [Calculated window size: 2619648]
    [Window size scaling factor: 256]
    Checksum: 0x9d1f [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
  > [SEQ/ACK analysis]
  > [Timestamps]
    TCP payload (15 bytes)
∨ Internet Relay Chat
  > Response: User Authorized
```

```
0000  02 00 00 00 45 00 00 37  6d 59 40 00 80 06 00 00   ····E··7 mY@·····
0010  7f 00 00 01 7f 00 00 01  1a 0b d7 62 8b c4 53 a9   ········ ···b··S·
0020  82 40 8f ac 50 18 27 f9  9d 1f 00 00 55 73 65 72   ·@··P·'· ····User
0030  20 41 75 74 68 6f 72 69  7a 65 64                    Authori zed
```

irc						
No.	Time	Source	Destination	Protocol	Length	Info
4	0.000310	127.0.0.1	127.0.0.1	IRC	48	Request (azha)
6	0.000347	127.0.0.1	127.0.0.1	IRC	49	Request (0341)
8	0.000557	127.0.0.1	127.0.0.1	IRC	59	Response (User)

```
> Frame 4: 48 bytes on wire (384 bits), 48 bytes captured (384 bits) on interface \Device\NPF_Loopback, id 0
> Null/Loopback
> Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
> Transmission Control Protocol, Src Port: 55138, Dst Port: 6667, Seq: 1, Ack: 1, Len: 4
∨ Internet Relay Chat
    > Request: azha
```

Note:
IRC is a text-based protocol. A client can send a certain command and the server will then respond with a response code and optional data regarding the status of the.