

MODULE 4

For the attached file, write a bash script which should take the file as input and have to go through it line by line and need to generate an output file (say output.txt) with listings of following parameters fetched from the input file.

Params expected to be fetched from input.txt file: "frame.time", "wlan.fc.type", "wlan.fc.subtype"

Sample output expected in output.txt: "frame.time":

"Nov 14, 2024 11:44:48.219200000 India Standard Time", "wlan.fc.type": "1",
"wlan.fc.subtype": "9" "frame.time": "Nov 14, 2024 11:44:48.219208000 India Standard
Time", "wlan.fc.type": "0", "wlan.fc.subtype": "1", and so on

```
tce@tce-VirtualBox:~$ chmod +x m4q1.sh
tce@tce-VirtualBox:~$ ./m4q1.sh input.txt
Output Extracted in a file
tce@tce-VirtualBox:~$
```

```
#!/bin/bash

if [ $# -ne 1 ]; then
    echo "Usage: ./extract.sh input.txt"
    exit 1
fi

input="$1"
output="output.txt"

> "$output"

frame_time=""
wlan_type=""
wlan_subtype=""

while read -r line
do
    if [[ $line == *"$frame.time"* ]]; then
        frame_time=$(echo "$line" | cut -d '"' -f4)
    fi
    if [[ $line == *"$wlan.fc.type"* ]]; then
        wlan_type=$(echo "$line" | cut -d '"' -f4)
    fi
    if [[ $line == *"$wlan.fc.subtype"* ]]; then
        wlan_subtype=$(echo "$line" | cut -d '"' -f4)
    fi
done > "$output"
```

```

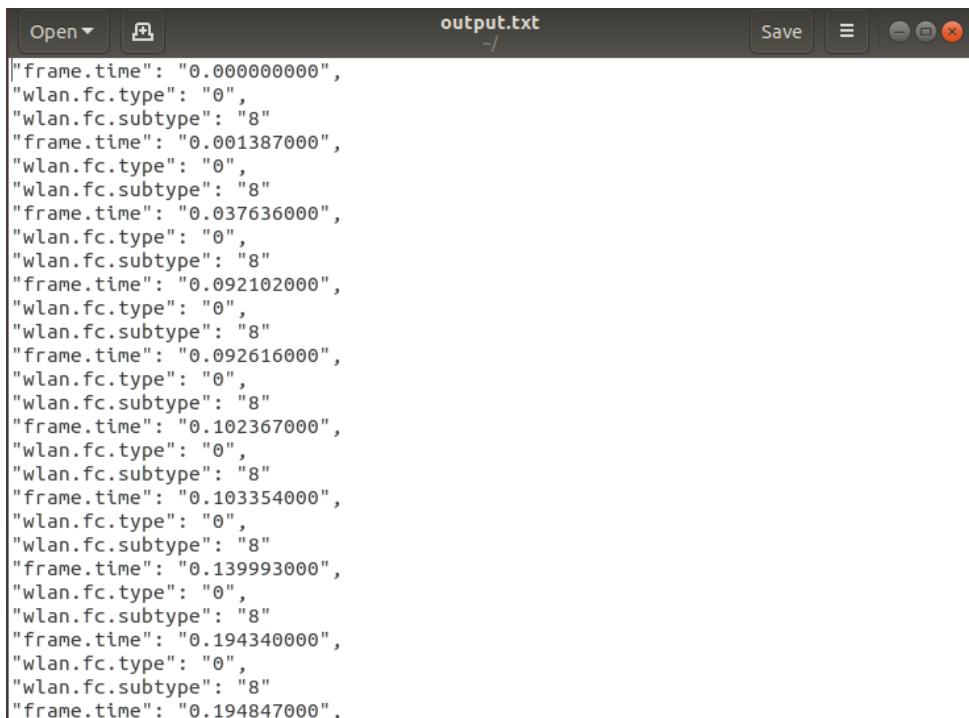
if [[ -n $frame_time && -n $wlan_type && -n $wlan_subtype ]]; then
    echo "\"frame.time\": \"$frame_time\", " >> "$output"
    echo "\"wlan.fc.type\": \"$wlan_type\", " >> "$output"
    echo "\"wlan.fc.subtype\": \"$wlan_subtype\" " >> "$output"

    frame_time=""
    wlan_type=""
    wlan_subtype=""
fi

done < "$input"

echo "Output Extracted in a file"

```



The screenshot shows a terminal window with the title bar "output.txt" and the path "~/". The window contains the following text:

```

"frame.time": "0.000000000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.001387000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.037636000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.092102000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.102367000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.103354000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.139993000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.194340000",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8"
"frame.time": "0.194847000",

```