

Campus Hires 2026

LINUX Assessment Module 4

S Vimal

Q) 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.

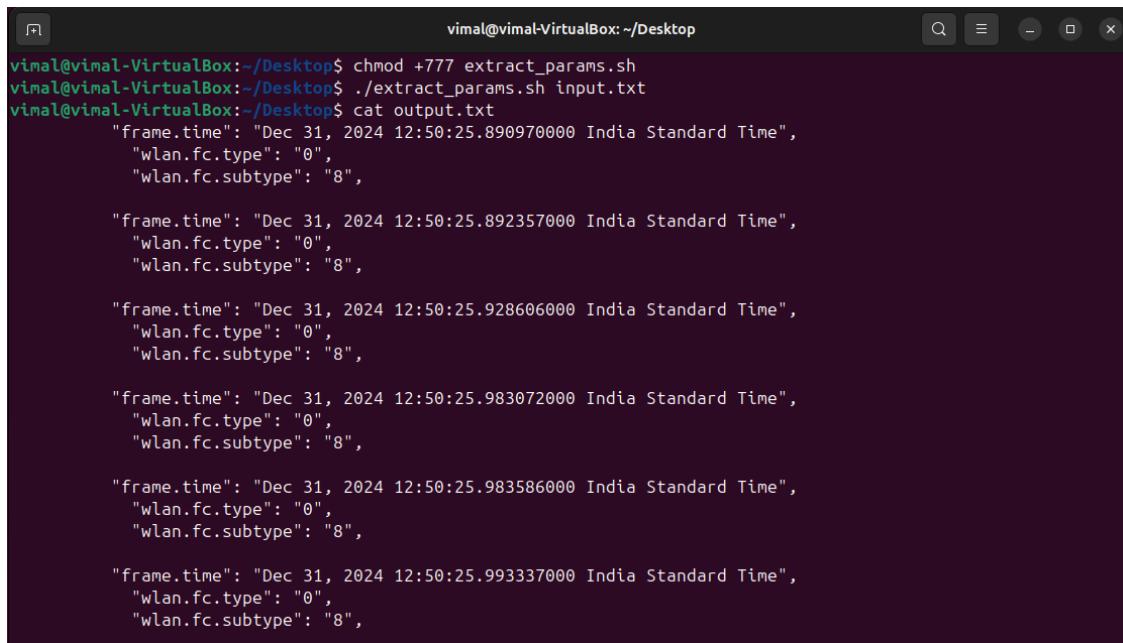
Params expected to be fetched from input.txt file : "**frame.time**", "**wlan.fc.type**", "**wlan.fc.subtype**"

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.

Solution



```
vimal@vimal-VirtualBox:~/Desktop$ chmod +777 extract_params.sh
vimal@vimal-VirtualBox:~/Desktop$ ./extract_params.sh input.txt
vimal@vimal-VirtualBox:~/Desktop$ cat output.txt
"frame.time": "Dec 31, 2024 12:50:25.890970000 India Standard Time",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8",

"frame.time": "Dec 31, 2024 12:50:25.892357000 India Standard Time",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8",

"frame.time": "Dec 31, 2024 12:50:25.928606000 India Standard Time",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8",

"frame.time": "Dec 31, 2024 12:50:25.983072000 India Standard Time",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8",

"frame.time": "Dec 31, 2024 12:50:25.983586000 India Standard Time",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8",

"frame.time": "Dec 31, 2024 12:50:25.993337000 India Standard Time",
"wlan.fc.type": "0",
"wlan.fc.subtype": "8",
```

extract params.sh

```
#!/bin/bash

INPUT_FILE="$1"
OUTPUT_FILE="output.txt"

if [ $# -ne 1 ]; then
    echo "File: $0 <input_file>"
    exit 1
fi

if [ ! -f "$INPUT_FILE" ]; then
    echo "File not found!"
    exit 1
fi

awk '
    /"frame.time"/ {
        frame_time=$0
    }

    /"wlan.fc.type"/ {
        wlan_type=$0
    }

    /"wlan.fc.subtype"/ {
        wlan_subtype=$0
    }

    /"wlan.fc.subtype"/ {
        wlan_subtype=$0

        print frame_time >> "output.txt"
        print wlan_type >> "output.txt"
        print wlan_subtype >> "output.txt"
        print "" >> "output.txt"

        frame_time = wlan_type = wlan_subtype = ""
    }

    '$INPUT_FILE'
```

