

# Mod 4 Assignment

## Question:

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.

## Answer:

### Code:

```
#!/bin/bash

if [ -z "$1" ]; then
    echo "Usage: $0 <input_file>"
    exit 1
fi

if [ ! -f "$1" ]; then
    echo "Error: File '$1' not found."
    exit 1
fi

awk '
/"frame.time"/ {
    gsub(/.*"frame.time": */, ""); gsub(/,$/, "");
    ft = $0
}
/"wlan.fc.type"/ && !/"wlan.fc.type_subtype"/ {
    gsub(/.*"wlan.fc.type": */, ""); gsub(/,$/, "");
```

```

        wt = $0
    }
/"wlan.fc.subtype"/ {
    gsub(/.*"wlan.fc.subtype": */, ""); gsub(/,$/, "");
    ws = $0
}
ft && wt && ws {
    print "\"frame.time\": " ft ","
    print "\"wlan.fc.type\": " wt ","
    print "\"wlan.fc.subtype\": " ws
    print ""
    ft = ""; wt = ""; ws = ""
}
' "$1" > output.txt

echo "Done! Output written to output.txt"

```

echo "Done! Output written to output.txt"

```

vishnu@vishnu:~/Documents/linux_assignments/assignment4$ ./extract.sh input.txt
Done! Output written to output.txt
vishnu@vishnu:~/Documents/linux_assignments/assignment4$ head 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",
vishnu@vishnu:~/Documents/linux_assignments/assignment4$ █

```