

**Q1** - The file **fix.log** is a log file containing some simple FIX messages.

1 – Familiarize yourself with the log file by

Viewing it using an editor (vi or a programming IDE such as vscode)

Display its contents on a terminal using cat or something similar

2 – Notice the FIX SOH delimiter is different depending on how you view it

For example, it may be displayed as **^A** or **SOH** or its simply not displayed on a terminal

3 – Write a one-line Linux command to create a new version of the log file called **fix.txt** but with the **SOH** character changed to a '|' (pipe) character

4 – Find a suitable regular expression that matches the timestamp beginning each line of the log file.

5 – Use a suitable Linux power tool or command line to change the file fix.txt by removing the leading timestamp in line of the file fix.txt

i.e. a line that starts with

```
20111107-10:52:57.868: 8=FIX.4.4
```

gets replaced with

```
8=FIX.4.4
```

**Q2** – The file **trading\_app.log** is a more realistic log file from an app and contains a mixture of

a) application log messages

```
30Jan10 05:52:38.554 [INFO] Created session: FIX.4.2:ABC->XYZ
```

b) FIX messages

```
30Jan10 05:53:40.830 [INFO] Outgoing:
```

```
8=FIX.4.2|9=51|35=0|34=703|49=ABC|52=20100130-
```

```
10:53:40.830|56=XYZ|10=249|
```

1 – Familiarize yourself with the log file by

Viewing it using an editor (vi or a programming IDE such as vscode)

Display its contents on a terminal using cat or something similar

2 – Notice the FIX SOH delimiter has already been changed by the app to be a '|' (pipe) character.

3 – Use your arsenal of Linux commands and power tools to strip out ONLY the lines that contain FIX messages and store them in a new file called **trading\_app.txt**

4 – Find a suitable regular expression that matches the logfile message beginning each line of the log file.

5 – Use a suitable Linux power tool or command line to change the file **trading\_app.txt** by removing the leading log file entry

i.e. a line that starts with

```
30Jan10 05:52:40.663 [INFO] 8=FIX.4.2
```

gets replaced with

```
8=FIX.4.2
```