Assignment 6:

```
Sample log file
```

2024-05-24 14:32:10 INFO Starting the service

2024-05-24 14:33:45 ERROR An error occurred in the service

2024-05-24 14:35:12 INFO Service running smoothly

2024-05-24 14:36:05 ERROR Another error occurred

Use 'grep' to extract lines containing "ERROR".

Use 'awk' to print the date, time, and error message.

Optionally, use 'sed' for further processing if needed.

Check if the log file is provided as an argument

if [-z "\$1"]; then

echo "Usage: \$0 < logfile>"

exit 1

fi

LOGFILE="\$1"

Extract lines containing "ERROR" and process with awk grep "ERROR" "\$LOGFILE" | awk '{print \$1, \$2, \$3, \$4, \$5}'

#Run the script with your log file

./extract errors.sh sample.log

#Given the example log file provided, the output would be

2024-05-24 14:33:45 ERROR An error occurred in the service

2024-05-24 14:36:05 ERROR Another error occurred

#This output shows the date, time, and error message for each line containing "ERROR".

#If additional text processing is needed, sed can be incorporated. For example, to remove extra spaces in the error message:

```
#!/bin/bash

# Check if the log file is provided as an argument
if [ -z "$1" ]; then
  echo "Usage: $0 < logfile>"
  exit 1
fi
```

LOGFILE="\$1"

| sed 's/ \+/ /g'

Extract lines containing "ERROR", process with awk, and further refine with sed grep "ERROR" "\$LOGFILE" | awk '{print \$1, \$2, \$3, \$4, substr(\$0, index(\$0,\$5))}'

```
mohana@LAPTOP-C6DK3IAD:~$ ls

TestDir class.text class.txt mohana mohana.txt msen test.txt

mohana@LAPTOP-C6DK3IAD:~$ mkdir log_processing

mohana@LAPTOP-C6DK3IAD:~$ cd log_processing

mohana@LAPTOP-C6DK3IAD:~/log_processing$ nano sample.log

mohana@LAPTOP-C6DK3IAD:~/log_processing$ grep "ERROR" sample.log > errors.log

mohana@LAPTOP-C6DK3IAD:~/log_processing$ awk '{print $1, $2, $0}' errors.log
```