

Assignment 6: Given a sample log file, write a script using grep to extract all lines containing "ERROR". Use awk to print the date, time, and error message of each extracted line.

Data Processing with sed

```
#!/bin/bash
```

```
# Define the log file
```

```
LOG_FILE="sample.log"
```

```
# Check if the log file exists
```

```
if [ ! -f "$LOG_FILE" ]; then
```

```
    echo "Log file $LOG_FILE not found!"
```

```
    exit 1
```

```
fi
```

```
# Extract lines containing "ERROR" and process them with awk
```

```
grep "ERROR" "$LOG_FILE" | awk '
```

```
{
```

```
    # Assuming the log format is: YYYY-MM-DD HH:MM:SS LEVEL  
    MESSAGE
```

```
    date = $1
```

```
    time = $2
```

```
    level = $3
```

```
    # Concatenate the rest of the fields for the error message
```

```
message = ""
for (i = 4; i <= NF; i++) {
    message = message $i " "
}
# Print the extracted fields
print "Date:", date, "Time:", time, "Message:", message
}'
```

Example sed usage: Remove the INFO and WARN lines from the log file and print the result

```
sed '/INFO/d;/WARN/d' "$LOG_FILE"
```