

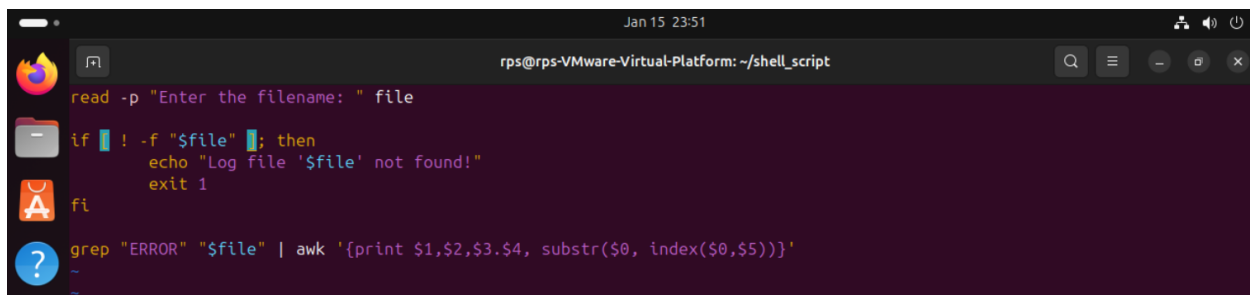
## Assignment-6

**Name:** Boyapati Durgamallikarjuna

**RPS UserId:** 21951

**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.

Shell script code with the name of `extract_errors.sh`:

A terminal window titled 'rps@rps-VMware-Virtual-Platform: ~/shell\_script' showing the code for a shell script. The code includes a prompt for a filename, a check for file existence, and a grep/awk command to extract error messages.

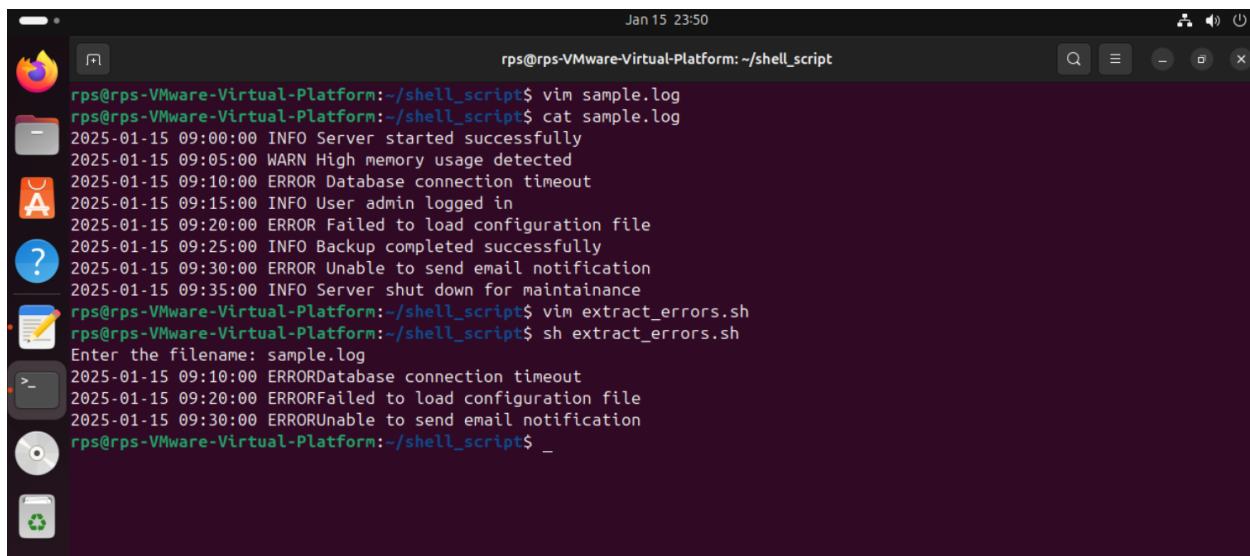
```
Jan 15 23:51
rps@rps-VMware-Virtual-Platform: ~/shell_script

read -p "Enter the filename: " file

if [ ! -f "$file" ]; then
    echo "Log file '$file' not found!"
    exit 1
fi

grep "ERROR" "$file" | awk '{print $1,$2,$3,$4, substr($0, index($0,$5))}'
```

Commands to run `extract_errors.sh` and checking its function:

A terminal window showing the execution of the script. It first displays the contents of a sample log file, then runs the script with the filename 'sample.log', and finally shows the output of the script, which lists the error messages from the log file.

```
Jan 15 23:50
rps@rps-VMware-Virtual-Platform: ~/shell_script

rps@rps-VMware-Virtual-Platform:~/shell_script$ vim sample.log
rps@rps-VMware-Virtual-Platform:~/shell_script$ cat sample.log
2025-01-15 09:00:00 INFO Server started successfully
2025-01-15 09:05:00 WARN High memory usage detected
2025-01-15 09:10:00 ERROR Database connection timeout
2025-01-15 09:15:00 INFO User admin logged in
2025-01-15 09:20:00 ERROR Failed to load configuration file
2025-01-15 09:25:00 INFO Backup completed successfully
2025-01-15 09:30:00 ERROR Unable to send email notification
2025-01-15 09:35:00 INFO Server shut down for maintainance
rps@rps-VMware-Virtual-Platform:~/shell_script$ vim extract_errors.sh
rps@rps-VMware-Virtual-Platform:~/shell_script$ sh extract_errors.sh
Enter the filename: sample.log
2025-01-15 09:10:00 ERRORDatabase connection timeout
2025-01-15 09:20:00 ERRORFailed to load configuration file
2025-01-15 09:30:00 ERRORUnable to send email notification
rps@rps-VMware-Virtual-Platform:~/shell_script$ _
```