Homework 2

Chadaram Geyanth Padmakar 205224002

M.Tech Data Analytics, NIT Trichy

Q1: Write a HEARTBEAT job using BASH using the system log of your choice on your desired operating system.

- Below is simple script to track the logs using BASH.

```
#!/bin/bash

perine log message
HEARTBEAT_MSG="HEARTBEAT: System is alive - $(date)"

# Write to a custom log file
echo "$HEARTBEAT_MSG" >> "$HOME/heartbeat.log"

# Optional: Print to console for debugging
echo "$HEARTBEAT_MSG"
```

- To see the logs in the log file, we need to follow these steps (In Windows)
 - o STEP 1: Know the HOME directory of the log file

```
HP@Geyanth MINGW64 /d/M.Tech/2nd Sem/Devops/Assignments/hw2-heartbeat-Geyanth08 (main)
• $ echo $HOME
/c/Users/HP
```

o STEP 2: Know the path of the log file and its permissions

```
HP@Geyanth MINGW64 /d/M.Tech/2nd Sem/Devops/Assignments/hw2-heartbeat-Geyanth08 (main)

$ 1s -1 $HOME/heartbeat.log
-rw-r--r-- 1 HP 197121 355 Mar 25 06:42 /c/Users/HP/heartbeat.log
```

 STEP 3: Display the content of the LOG file created while HEARTBEAT script is executed

```
HP@Geyanth MINGW64 /d/M.Tech/2nd Sem/Devops/Assignments/hw2-heartbeat-Geyanth08 (main)
$ tail -f /c/Users/HP/heartbeat.log
$ tail -f /c/Users/HP/heartbeat.log
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:37:00 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:38:00 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:37:00 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:38:00 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:38:00 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:42:23 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:42:23 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:42:33 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:42:43 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:42:54 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:43:04 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:43:14 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:43:24 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:43:34 AM
HEARTBEAT: System is alive - Tue, Mar 25, 2025 6:43:44 AM
```