Devops Homework 2

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

The operating system used here is Windows with custom logging approach in which heartbeat messages are logged to a text file in the Windows home directory.

Script (heartbeat.sh):

```bash
#!/bin/bash

# Custom log file in the Windows home directory
LOG_FILE="$HOME/heartbeat.log"

# Function to log a heartbeat message
log_heartbeat() {
    TIMESTAMP=$(date +"%Y-%m-%d %H:%M:%S")

    # Write to a custom log file
    echo "[$TIMESTAMP] Heartbeat check" >> "$LOG_FILE"
}

# Run every 60 seconds
while true; do
    log_heartbeat
    sleep 60
done
```

Output:

```
DELL@DESKTOP-CV4JT0P MINGW64 /e/Devops/Homework2
$ cat ~/heartbeat.log
[2025-03-24 13:32:01] Heartbeat check
[2025-03-24 13:33:58] Heartbeat check
[2025-03-24 13:35:04] Heartbeat check
[2025-03-24 13:36:04] Heartbeat check
[2025-03-24 13:37:04] Heartbeat check
[2025-03-24 13:38:04] Heartbeat check
[2025-03-24 13:39:04] Heartbeat check
[2025-03-24 13:40:04] Heartbeat check
[2025-03-24 13:41:04] Heartbeat check
[2025-03-24 13:42:04] Heartbeat check
[2025-03-24 13:43:04] Heartbeat check
[2025-03-24 13:44:04] Heartbeat check
[2025-03-24 13:45:05] Heartbeat check
```