**Assignment3**

**1.OS information**

#!/bin/bash

echo "Operating System: $(uname -o)"

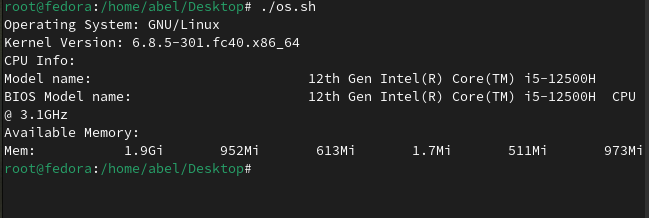
echo "Kernel Version: $(uname -r)"

echo "CPU Info:"

lscpu | grep "Model name"

echo "Available Memory:"

free -h | grep "Mem:"



**2. Check and Start Process**

#!/bin/bash

PROCESS\_NAME="your\_process\_here"

if pgrep "$PROCESS\_NAME" > /dev/null; then

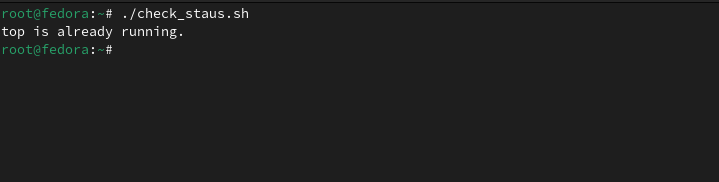
echo "$PROCESS\_NAME is already running."

else

echo "$PROCESS\_NAME is not running. Starting it..."

"$PROCESS\_NAME" &

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**3. Disk Usage**

#!/bin/bash

# Set partition and threshold

PARTITION=""/dev/sr0

THRESHOLD=80

# Get usage percent without the % sign

USAGE=$(df "$PARTITION" | awk 'NR==2 {gsub("%",""); print $5}')

if [ "$USAGE" -gt "$THRESHOLD" ]; then

echo "Disk usage on $PARTITION is ${USAGE}% – over threshold of ${THRESHOLD}%" | \

mail -s "Disk Space Alert" abelvj67@gmail.com

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