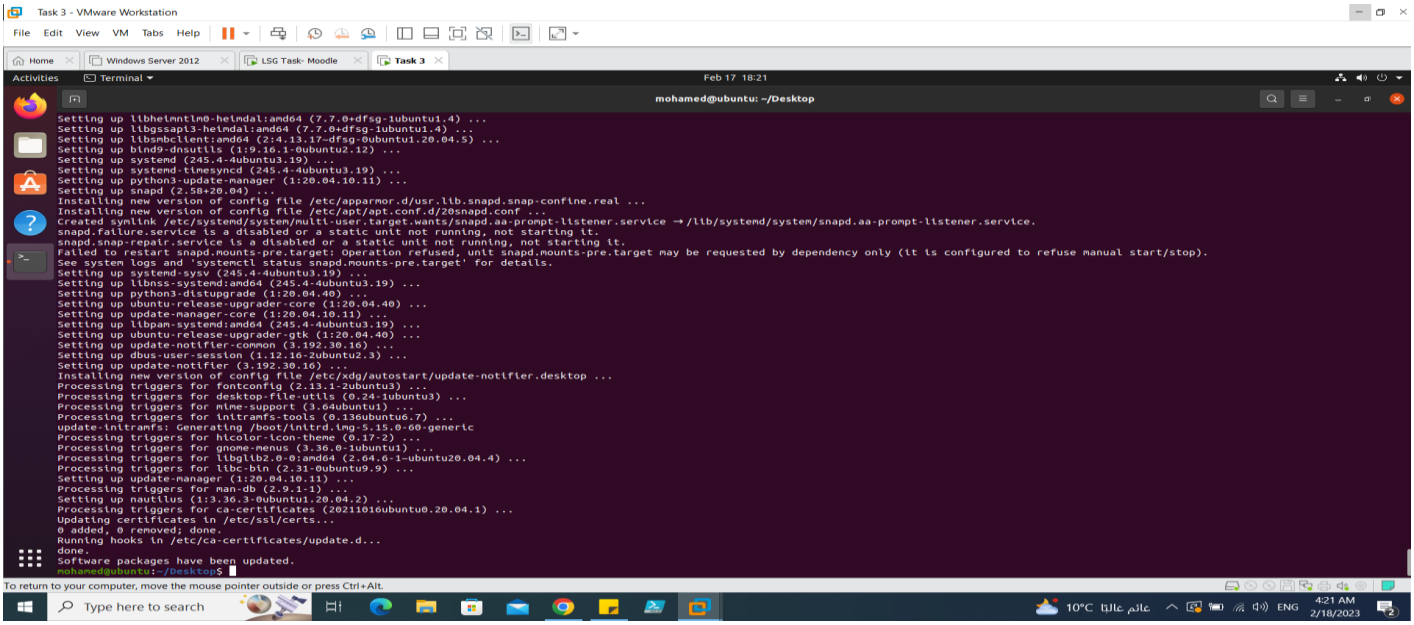
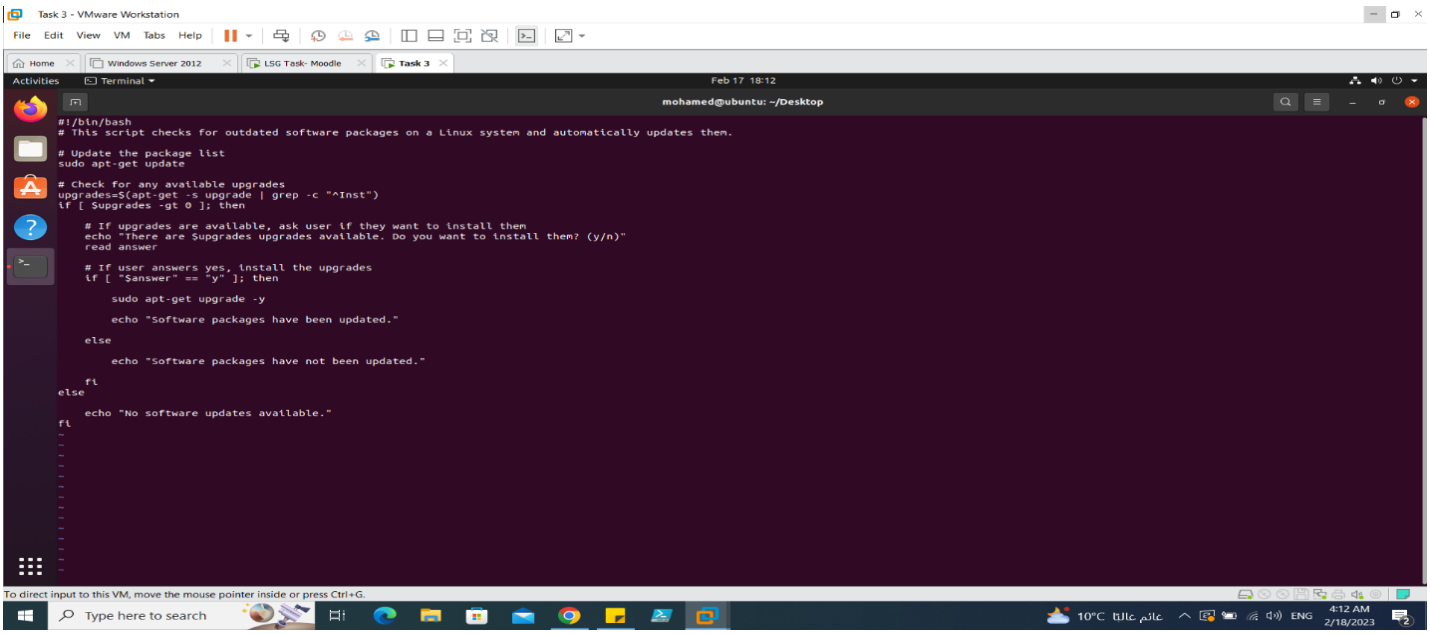
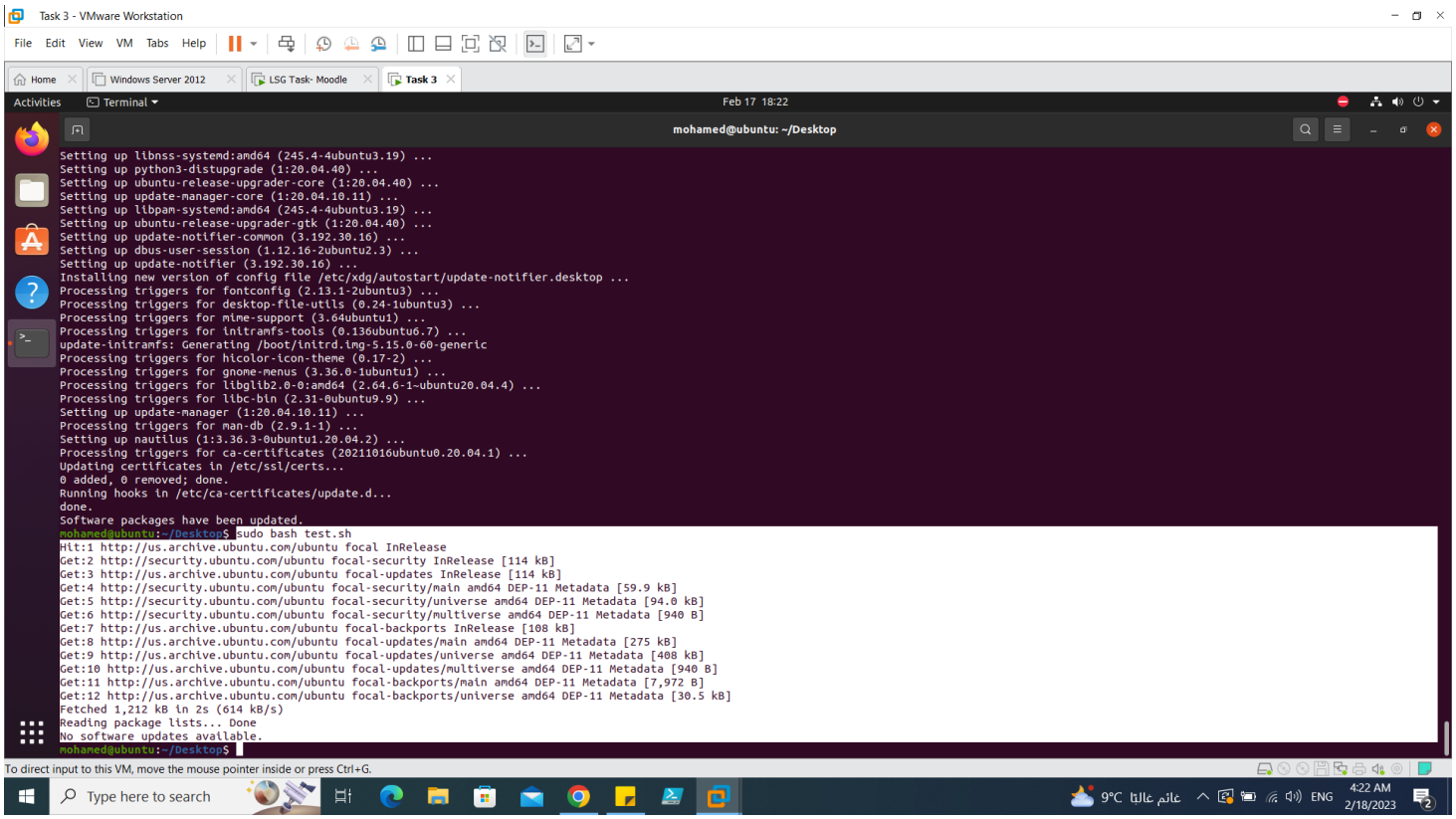
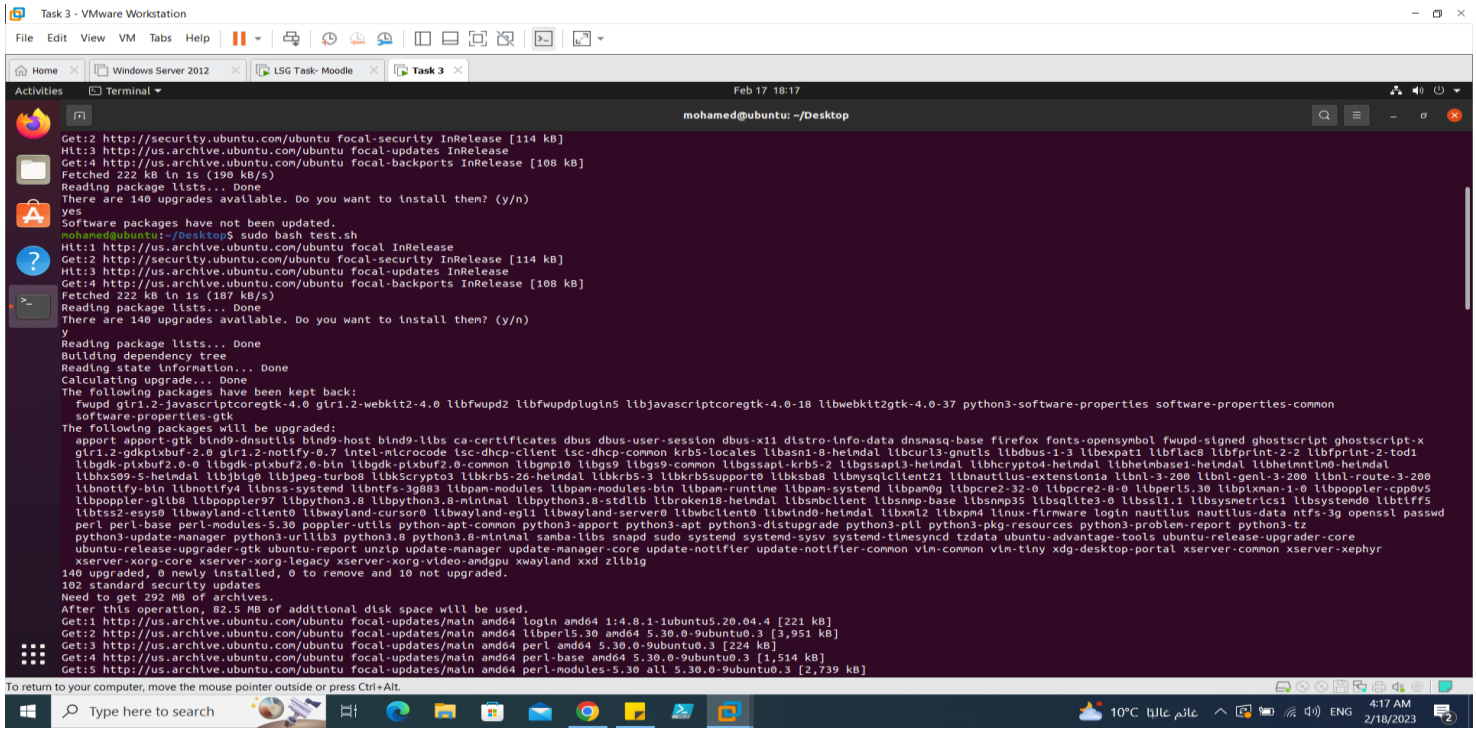
- **Write a bash script to check the outdated software packages and update:**









- **Note :I explained each part of the script with a comment in the script**

```
#!/bin/bash
# This script checks for outdated software packages on a Linux system and automatically updates them.
# Update the package list
sudo apt-get update
# Check for any available upgrades
upgrades=$(apt-get -s upgrade | grep -c "^Inst")
if [ $upgrades -gt 0 ]; then
    # If upgrades are available, ask user if they want to install them
    echo "There are $upgrades upgrades available. Do you want to install them? (y/n)"
    read answer
    # If user answers yes, install the upgrades
    if [ "$answer" == "y" ]; then
        sudo apt-get upgrade -y
        echo "Software packages have been updated."
    else
        echo "Software packages have not been updated."
    fi
else
    echo "No software updates available."
fi
```