SECURE CODING – 2010 (L23+L24)
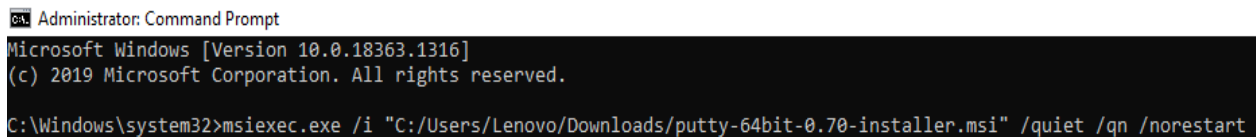
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LAB EXPERIMENT 2

Question 1:

Silent installation of a software using msiexec command in cmd

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.18363.1316]
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C:\Windows\system32>msiexec.exe /i "C:/Users/Lenovo/Downloads/putty-64bit-0.70-installer.msi" /quiet /qn /norestart
```

Installation taking place without being notified by the system

Question 2:

Who has the highest privilege in an OS?

The **SYSTEM** has the highest privilege. There are some tasks where the user cannot end and when the user tries to end the task a dialogue box appears stating that "Access Denied" showing that there is a higher privileged entity which is the

SYSTEM.

Question 3:

Find the details of the current user

```
C:\Windows\system32>whoami
desktop-2tf9kqg\lenovo
```

Question 4:

In what form is our folders organized and of which type?

The folders are arranged in the form of **tree** data structure and
their type is **hierarchical.**

```
Administrator: Command Prompt
C:\Windows\System32> tree C:\Users\Lenovo\Documents
Folder PATH listing
Volume serial number is E416-CA74
C:\USERS\LENOVO\DOCUMENTS
├──Custom Office Templates
├──R
│  └──win-library
│     ├──3.5
│     │  ├──class
│     │  │  ├──help
│     │  │  ├──html
│     │  │  ├──libs
│     │  │  │  ├──i386
│     │  │  │  └──x64
│     │  │  ├──Meta
│     │  │  ├──po
│     │  │  │  ├──de
│     │  │  │  │  └──LC_MESSAGES
│     │  │  │  ├──en@quot
│     │  │  │  │  └──LC_MESSAGES
│     │  │  │  ├──fr
│     │  │  │  │  └──LC_MESSAGES
│     │  │  │  ├──it
│     │  │  │  │  └──LC_MESSAGES
│     │  │  │  ├──ko
│     │  │  │  │  └──LC_MESSAGES
│     │  │  │  └──pl
│     │  │  │     └──LC_MESSAGES
│     │  │  └──R
│     │  ├──cluster
│     │  │  ├──data
│     │  │  ├──help
│     │  │  ├──html
│     │  │  ├──libs
│     │  │  │  ├──i386
│     │  │  │  └──x64
│     │  │  ├──Meta
│     │  │  ├──po
│     │  │  │  ├──de
│     │  │  │  │  └──LC_MESSAGES
│     │  │  │  ├──en@quot
│     │  │  │  │  └──LC_MESSAGES
│     │  │  │  ├──fr
│     │  │  │  │  └──LC_MESSAGES
```

Question 5:

Find the privilege of the user

```
C:\Windows\system32>net user

User accounts for \\DESKTOP-2TF9KQG

-------------------------------------------------------------------------
Administrator            DefaultAccount            Guest
Lenovo                   WDAGUtilityAccount
The command completed successfully.


C:\Windows\system32>
```

Question 6:

Write down the executable formats in Windows and Linux

The executable formats are .exe, .deb, .sh, .msi, .jar, .bat, .bin, .dll

Question 7:

Usage of "assoc" command.

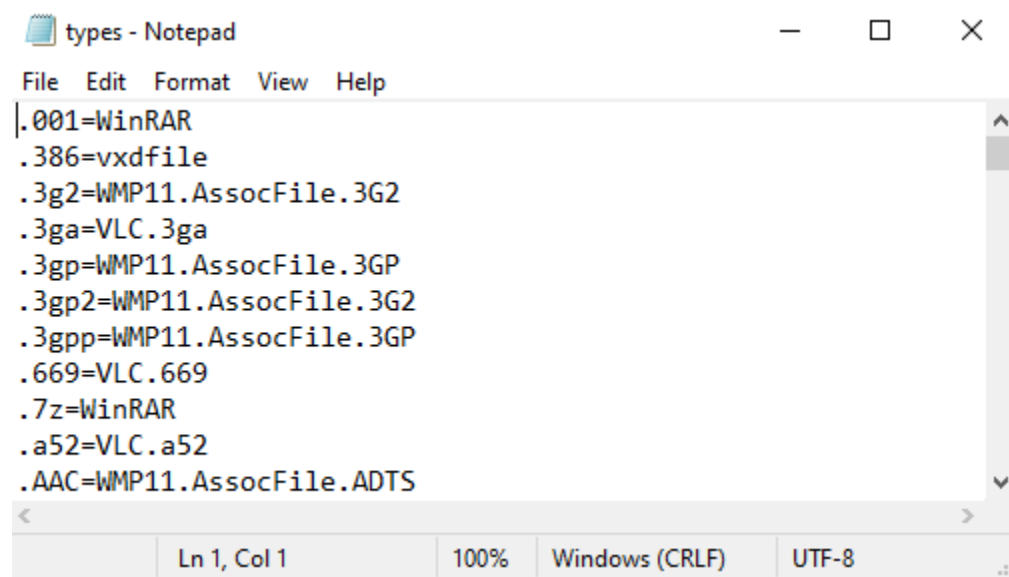# To find out all file types of a location using assoc command


```
Administrator: Command Prompt

C:\Windows\System32>assoc
.001=WinRAR
.386=vxdfile
.3g2=WMP11.AssocFile.3G2
.3ga=VLC.3ga
.3gp=WMP11.AssocFile.3GP
.3gp2=WMP11.AssocFile.3G2
.3gpp=WMP11.AssocFile.3GP
.669=VLC.669
.7z=WinRAR
.a52=VLC.a52
.AAC=WMP11.AssocFile.ADTS
.accda=Access.ACCDAExtension.15
.accdb=Access.Application.15
.accdc=Access.ACCDCFile.15
.accde=Access.ACCDEFile.15
.accdr=Access.ACCDRFile.15
.accdt=Access.ACCDTFile.15
.accdu=Access.WizardUserDataFile.15
.accdw=Access.WebApplicationReference.15
.accft=Access.ACCFTFile.15
.accountpicture-ms=accountpicturefile
.ace=WinRAR
.acl=ACLFile
.acrobatsecuritysettings=AcroExch.acrobatsecuritysettings
.ade=Access.ADEFile.15
.adn=Access.BlankProjectTemplate.15
.adp=Access.Project.15
.ADT=WMP11.AssocFile.ADTS
.ADTS=WMP11.AssocFile.ADTS
.aif=VLC.aif
.aifc=VLC.aifc
.aiff=VLC.aiff
.amv=VLC.amv
.ani=anifile
.aob=VLC.aob
.ape=VLC.ape
.api=AcroExch.Plugin
.appcontent-ms=ApplicationContent
.application=Application.Manifest
.appref-ms=Application.Reference
.arj=WinRAR
.asa=aspfile
```

Other commands using >,>>,<

assoc>types.txt

```
C:\Windows\System32>assoc>C:\Users\Lenovo\types.txt

C:\Windows\System32>
```

types - Notepad

File   Edit   Format   View   Help

```
.001=WinRAR
.386=vxdfile
.3g2=WMP11.AssocFile.3G2
.3ga=VLC.3ga
.3gp=WMP11.AssocFile.3GP
.3gp2=WMP11.AssocFile.3G2
.3gpp=WMP11.AssocFile.3GP
.669=VLC.669
.7z=WinRAR
.a52=VLC.a52
.AAC=WMP11.AssocFile.ADTS
```

Ln 1, Col 1   100%   Windows (CRLF)   UTF-8

Ipconfig>>netdata.txt

```
C:\Windows\System32>ipconfig>>C:\Users\Lenovo\netdata.txt

C:\Windows\System32>
```

netdata - Notepad

File   Edit   Format   View   Help

```
|
Windows IP Configuration


Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter VMware Network Adapter VMnet1:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::fcdd:627b:8d89:5422%19
   IPv4 Address. . . . . . . . . . . : 192.168.11.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Ethernet adapter VMware Network Adapter VMnet8:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::25b6:2e54:a938:81a2%20
   IPv4 Address. . . . . . . . . . . : 192.168.180.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Wireless LAN adapter Wi-Fi:
<
```

Sort<textfilename.txt

Here textfilename-ipconfig.txt

```
C:\Windows\System32>sort<C:\Users\Lenovo\ipconfig.txt
ipconfig

C:\Windows\System32>sort<C:\Users\Lenovo\ipconfig.txt
apple

C:\Windows\System32>_
```

ipconfig - Notepad
— □ ✕

File   Edit   Format   View   Help

ipconfig

| | Ln 1, Col 9 | | 100% | Windows (CRLF) | UTF-8 | |

ipconfig - Notepad
— □ ✕

File   Edit   Format   View   Help

apple|

| | Ln 1, Col 6 | | 100% | Windows (CRLF) | UTF-8 | |
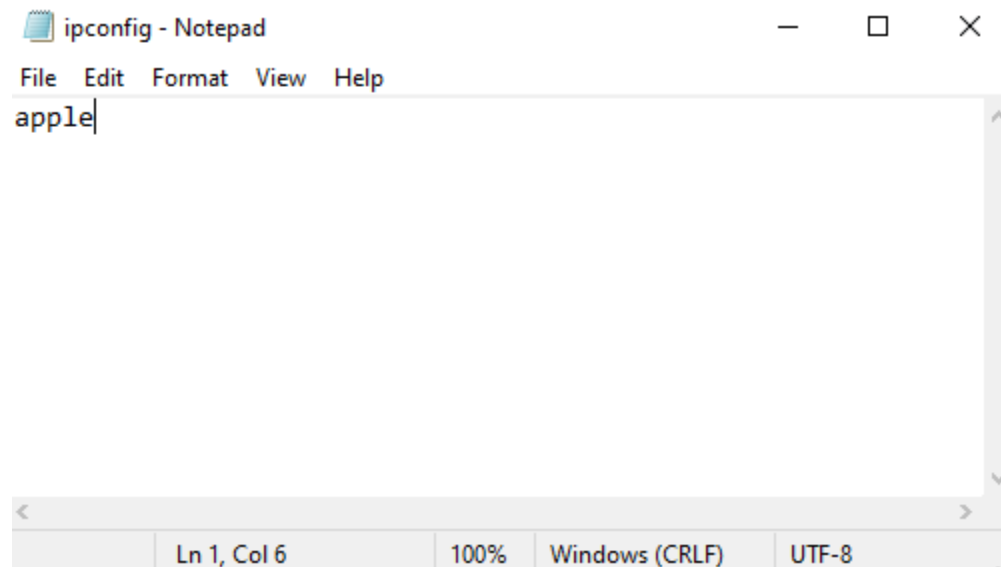
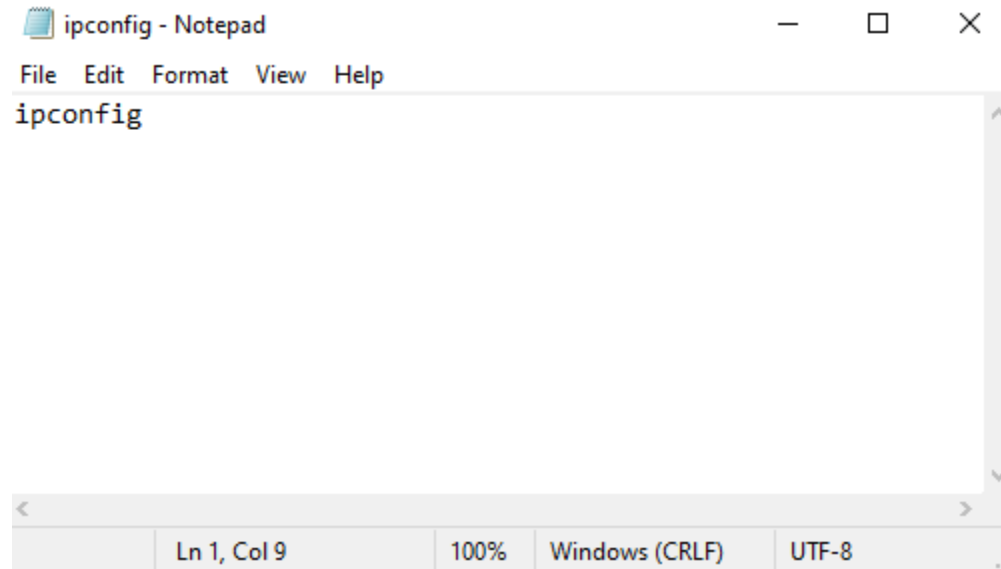## Reset and enter new time:

```
C:\Windows\System32>time
The current time is: 17:14:22.59
Enter the new time:
```

Pushd and Popd operations:

These operations are used for file switching by moving forward or backward. The above two operations remove the need of "cd"

```
C:\Windows\System32>pushd C:\Users\Lenovo\Downloads

C:\Users\Lenovo\Downloads>popd C:\Windows\System32

C:\Windows\System32>
```

With cd:

```
C:\Windows\System32>cd /d C:\Users\Lenovo\Downloads

C:\Users\Lenovo\Downloads>cd /d C:\Windows\System32

C:\Windows\System32>
```