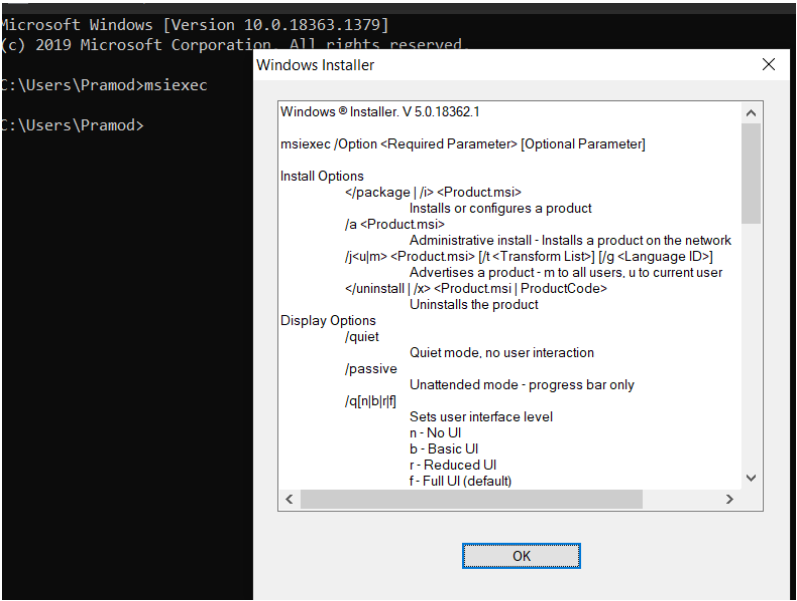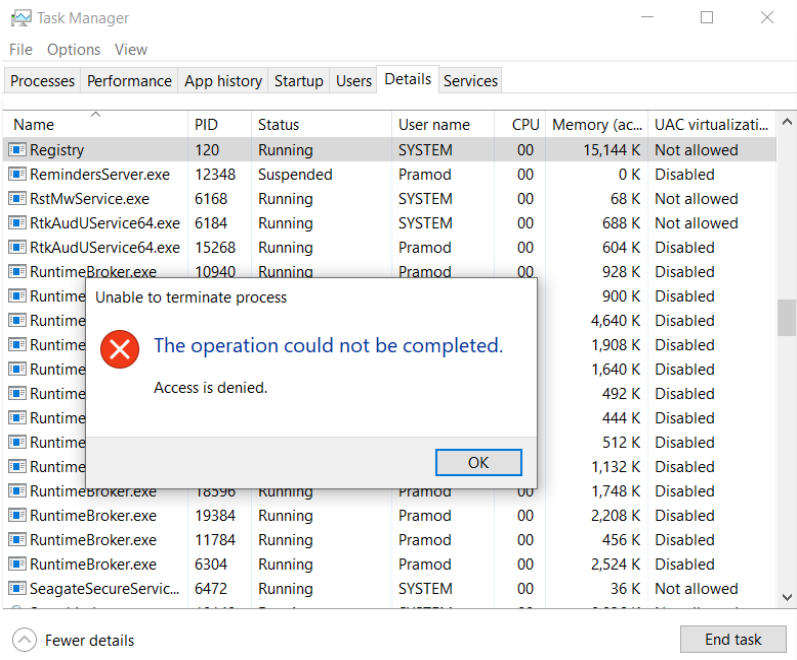# LAB-2: SECURE CODING

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18BCE7293

1.

2. Highest privileged user - SYSTEM

3. All User Privileges

```
C:\Users\Pramod>whoami
laptop-t1a2isvs\pramod

C:\Users\Pramod>net user

User accounts for \\LAPTOP-T1A2ISVS

-------------------------------------------------------------------------------
Administrator            DefaultAccount           Guest
Oracle                   Pramod                   WDAGUtilityAccount
The command completed successfully.
```

4. File structure

```
C:\Users\Pramod>Tree
```

```
    │   │   ├───html
    │   │   ├───html-ex
    │   │   ├───Meta
    │   │   └───R
    │   ├───sas7bdat
    │   │   ├───data
    │   │   ├───doc
    │   │   ├───help
    │   │   ├───html
    │   │   ├───Meta
    │   │   └───R
    │   ├───sass
    │   │   ├───doc
    │   │   ├───examples
    │   │   ├───help
    │   │   │   └───figures
    │   │   ├───html
    │   │   ├───libs
    │   │   │   ├───i386
    │   │   │   └───x64
    │   │   ├───Meta
    │   │   ├───R
    │   │   ├───sass-color
    │   │   │   └───rsconnect
    │   │   │       └───shinyapps.io
    │   │   │           └───gallery
    │   │   ├───sass-font
    │   │   │   └───rsconnect
    │   │   │       └───shinyapps.io
    │   │   │           └───gallery
    │   │   ├───sass-size
    │   │   │   └───rsconnect
    │   │   │       └───shinyapps.io
    │   │   │           └───gallery
    │   │   └───sass-theme
    │   │       └───rsconnect
    │   │           └───shinyapps.io
    │   │               └───gallery
    │   ├───scales
    │   │   ├───help
    │   │   │   └───figures
    │   │   ├───html
    │   │   ├───Meta
    │   │   └───R
    │   ├───selectr
    │   │   ├───demos
    │   │   ├───help
    │   │   ├───html
    │   │   ├───Meta
    │   │   └───R
    │   ├───shiny
    │   │   ├───app_template
```

5. Supported file formats

```
C:\Users\Pramod>assoc
.001=WinRAR
.386=vxdfile
.3ds=Photoshop.3DSFileType.140
.3g2=WMP11.AssocFile.3G2
.3gp=WMP11.AssocFile.3GP
.3gp2=WMP11.AssocFile.3G2
.3gpp=WMP11.AssocFile.3GP
.7z=WinRAR
.8ba=Photoshop.PlugIn
.8bc=Photoshop.PlugIn
.8be=Photoshop.PlugIn
.8bf=Photoshop.PlugIn
.8bi=Photoshop.PlugIn
.8bp=Photoshop.PlugIn
.8bs=Photoshop.PlugIn
.8bx=Photoshop.PlugIn
.8by=Photoshop.PlugIn
.8li=Photoshop.PlugIn
.AAC=WMP11.AssocFile.ADTS
.abr=Photoshop.BrushesFile
.acb=Photoshop.ColorBooks
.accountpicture-ms=accountpicturefile
.acf=Photoshop.CustomFilterKernel
.acl=ACLFile
.aco=Photoshop.SwatchesFile
.act=Photoshop.ColorTableFile
.acv=Photoshop.CurvesFile
.ado=Photoshop.DuotoneSettingsFile
.ADT=WMP11.AssocFile.ADTS
.ADTS=WMP11.AssocFile.ADTS
.ahs=Photoshop.HalftoneScreens
.ahu=Photoshop.HueSatFile
.aif=WMP11.AssocFile.AIFF
.aifc=WMP11.AssocFile.AIFF
.aiff=WMP11.AssocFile.AIFF
.alv=Photoshop.LevelsFile
.amp=Photoshop.ArbitraryMapFile
.ams=Photoshop.MonitorSetupFile
.ani=anifile
.api=Photoshop.PrintingInksFile
.apk=BlueStacks.Apk
.apl=Photoshop.AdobePlugIn
.appcontent-ms=ApplicationContent
.application=Application.Manifest
.appref-ms=Application.Reference
```

6. Reset system time

```
C:\Users\Pramod>time
The current time is: 14:17:31.94
Enter the new time: 14:18
```

7. Redirection Operators

```
C:\Users\Pramod\Downloads>assoc>types.text
```

types - Notepad

File   Edit   Format   View   Help

```
.001=WinRAR
.386=vxdfile
.3ds=Photoshop.3DSFileType.140
.3g2=WMP11.AssocFile.3G2
.3gp=WMP11.AssocFile.3GP
.3gp2=WMP11.AssocFile.3G2
.3gpp=WMP11.AssocFile.3GP
.7z=WinRAR
.8ba=Photoshop.PlugIn
.8bc=Photoshop.PlugIn
.8be=Photoshop.PlugIn
.8bf=Photoshop.PlugIn
.8bi=Photoshop.PlugIn
.8bp=Photoshop.PlugIn
.8bs=Photoshop.PlugIn
.8bx=Photoshop.PlugIn
.8by=Photoshop.PlugIn
.8li=Photoshop.PlugIn
.AAC=WMP11.AssocFile.ADTS
.abr=Photoshop.BrushesFile
.acb=Photoshop.ColorBooks
.accountpicture-ms=accountpicturefile
.acf=Photoshop.CustomFilterKernel
.acl=ACLFile
.aco=Photoshop.SwatchesFile
.act=Photoshop.ColorTableFile
.acv=Photoshop.CurvesFile
.ado=Photoshop.DuotoneSettingsFile
.ADT=WMP11.AssocFile.ADTS
.ADTS=WMP11.AssocFile.ADTS
```

```
C:\Users\Pramod\Downloads>ipconfig>>netdata.txt
```

netdata - Notepad

File   Edit   Format   View   Help

Windows IP Configuration

Ethernet adapter Ethernet:

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

Ethernet adapter VirtualBox Host-Only Network:

   Connection-specific DNS Suffix . :
   Link-local IPv6 Address . . . . . : fe80::1055:d188:ab29:efaf%12
   IPv4 Address. . . . . : 192.168.56.1
   Subnet Mask . . . . : 255.255.255.0
   Default Gateway . . . . :

Unknown adapter Local Area Connection:

   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* 10:

   Media State . . . . : Media disconnected

```
C:\Users\Pramod\Downloads>sort<netdata.txt

    Connection-specific DNS Suffix  . :
    Connection-specific DNS Suffix  . :
    Connection-specific DNS Suffix  . :
    Connection-specific DNS Suffix  . :
    Connection-specific DNS Suffix  . :
    Connection-specific DNS Suffix  . :
    Default Gateway . . . . . . . . . :
    Default Gateway . . . . . . . . . : 192.168.0.1
    IPv4 Address. . . . . . . . . . . : 192.168.0.104
    IPv4 Address. . . . . . . . . . . : 192.168.56.1
    Link-local IPv6 Address . . . . . : fe80::1055:d188:ab29:efaf%12
    Link-local IPv6 Address . . . . . : fe80::65f4:85d7:69f7:789%15
    Media State . . . . . . . . . . . : Media disconnected
    Media State . . . . . . . . . . . : Media disconnected
    Media State . . . . . . . . . . . : Media disconnected
    Media State . . . . . . . . . . . : Media disconnected
    Subnet Mask . . . . . . . . . . . : 255.255.255.0
    Subnet Mask . . . . . . . . . . . : 255.255.255.0
Ethernet adapter Ethernet:
Ethernet adapter VirtualBox Host-Only Network:
Unknown adapter Local Area Connection:
Windows IP Configuration
Wireless LAN adapter Local Area Connection* 1:
Wireless LAN adapter Local Area Connection* 10:
Wireless LAN adapter Wi-Fi:
```

```
C:\Users\Pramod\Downloads>dir|sort


             4 Dir(s)  65,245,220,864 bytes free
            53 File(s)  6,937,679,744 bytes
 Directory of C:\Users\Pramod\Downloads
 Volume in drive C is Windows
 Volume Serial Number is C823-5BE5
01-02-2021  23:54     2,785,017,856 ubuntu-20.04.1-desktop-amd64.iso
01-07-2020  20:20        16,941,186 Netflix.apk
01-12-2020  10:53       200,067,268 archive.zip
02-02-2021  00:05       130,377,112 balenaEtcher-Setup-1.5.115.exe
02-12-2020  22:19       424,873,984 mysql-installer-community-8.0.22.0.msi
04-12-2020  16:43           683,798 105055_4831_1.pdf
04-12-2020  16:49           794,080 Machine learning approaches based on clinical text data to detecting COVID-19.pdf
06-02-2021  15:06             1,791 Demo_Lab2.R
06-02-2021  15:06             2,104 game.csv
06-08-2020  22:33            78,642 ID.jpeg
09-02-2021  01:12        16,098,344 ProtonVPN_win_v1.18.5.exe
09-12-2020  12:01       464,857,648 pycharm-professional-2020.3.exe
10-01-2020  14:10        20,351,800 GRE - Complete Guide.pdf
11-02-2021  07:55        47,918,223 fmm x cbse textbook.pdf
11-02-2021  11:09               551 S3_Link.txt
11-05-2020  13:32       281,010,800 pycharm-community-2020.1.1.exe
11-08-2020  14:59             2,724 meetingAttendanceList.csv
11-12-2019  22:40    <DIR>          Adobe Photoshop 2020 21.0.1.47 (x64) RePack by SanLex [Multi.Ru]
12-09-2020  09:25           236,543 Estimate.pdf
13-02-2021  21:00             3,001 For Demo_Lab 3_R.R
13-02-2021  21:00         1,955,973 lab3_data.csv
13-06-2020  13:09       914,017,344 android-studio-ide-193.6514223-windows.exe
```

8. Switching between absolute paths.

```
C:\Users\Pramod\Downloads>cd /d D:\VIT\Labs

D:\VIT\Labs>cd /d C:\Users\Pramod\Downloads

C:\Users\Pramod\Downloads>pushd D:\VIT\Labs

D:\VIT\Labs>pushd C:\Users\Pramod\Downloads

C:\Users\Pramod\Downloads>popd D:\VIT\Labs

D:\VIT\Labs>popd C:\Users\Pramod\Downloads
```