

Practical 1: Java Application to Send an Encrypted Message from the Sender and Decrypt the Message at the Receiver's End.

Code:

Sender.java

```
package Sender;

import java.io.*;
import java.util.*;
import java.net.*;

public class Sender {
    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 string");
        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=" + 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.java

```
package Receiver;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.*;
import java.util.Random;

public class Receiver {
    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(" message" + s[0]);
        for (i = 0; i < s[0].length(); i++) {
            j[i] = Integer.parseInt(s[i + 1]);
            System.out.println(" key=" + j[i]);
        }
        for (i = 0; i < s[0].length(); i++) {
            System.out.println("j=" + j[i]);
            pt += (char) (s[0].charAt(i) - j[i]);
        }

        System.out.println(" message from Sender: " + pt);
    }
}
```

OUTPUT

The screenshot shows the NetBeans IDE with the `Sender.java` file open. The code defines a `Sender` class with a `main` method that generates a random key and a test string, then sends them over a socket to a receiver. The output window shows the execution results, including the key, the test string, and the encrypted message.

```
package Sender;

import java.io.*;
import java.util.*;
import java.net.*;

public class Sender {
    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 string");
        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=" + 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();
    }
}
```

Output:

```
run:
Enter the string
Hello This is a Test String!
j=16
j=37
j=5
j=1
j=9
j=25
j=32
j=10
j=29
j=47
j=35
j=24
j=25
j=21
j=44
j=11
j=34
j=10
j=18
j=6
j=25
j=19
j=30
j=43
j=37
j=39
j=45
j=6
Key=16,37,5,1,9,25,32,10,29,47,35,24,25,21,44,11,34,10,18,6,25,19,30,43,1
Encrypted message: X7gm5Str7C757v075S777777
BUILD SUCCESSFUL (total time: 13 seconds)
```

The screenshot shows the NetBeans IDE with the `Receiver.java` file open. The code defines a `Receiver` class that receives a message and a key from the sender, then decrypts the message. The output window shows the execution results, including the key, the received message, and the decrypted message.

```
package Receiver;

import java.io.*;
import java.io.IOException;
import java.io.InputStream;
import java.net.*;
import java.util.*;

public class Receiver {
    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(" message " + s[0]);
        for (i = 0; i < s[0].length(); i++) {
            j[i] = Integer.parseInt(s[i + 1]);
            System.out.println(" key=" + j[i]);
        }

        for (i = 0; i < s[0].length(); i++) {
            System.out.println("j=" + j[i]);
            pt += (char) (s[0].charAt(i) - j[i]);
        }

        System.out.println(" message from Sender: " + pt);
    }
}
```

Output:

```
run:
key=18
key=6
key=25
key=19
key=30
key=43
key=37
key=39
key=45
key=6
j=16
j=37
j=5
j=1
j=9
j=25
j=32
j=10
j=29
j=47
j=35
j=24
j=21
j=44
j=11
j=34
j=10
j=18
j=6
j=25
j=19
j=30
j=43
j=37
j=39
j=45
j=6
message from Sender: Hello This is a Test String!
BUILD SUCCESSFUL (total time: 22 seconds)
```

Practical 2: Java Application for Creating Log Files

Code:

```
package Practical2;

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

public class Practical2 {

    public static void main(String[] args) {
        Logger l = Logger.getLogger(Practical2.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 Practical 2");
    }
}
```

OUTPUT

The screenshot displays the Apache NetBeans IDE interface. The main editor window shows the source code for `Practical2.java`. The code defines a package `Practical2`, imports `java.io.*` and `java.util.logging.*`, and contains a `Practical2` class with a `main` method. The `main` method initializes a logger, sets up a file handler for `D:/mylogfile.log`, and logs three messages: "My first log", "This is CFL Practical 2", and "This is CFL Practical 2".

```
package Practical2;

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

public class Practical2 {

    public static void main(String[] args) {
        Logger l = Logger.getLogger(Practical2.class.getName());
        FileHandler fh;
        try {
            fh = new FileHandler(pattern: "D:/mylogfile.log", append: 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 Practical 2");
    }
}
```

The Output window shows the execution results:

```
run:
Oct 13, 2023 5:19:13 PM Practical2.Practical2 main
INFO: My first log
Oct 13, 2023 5:19:13 PM Practical2.Practical2 main
INFO: This is CFL Practical 2
BUILD SUCCESSFUL (total time: 1 second)
```

A separate Notepad window titled `mylogfile.log - Notepad` shows the content of the log file:

```
Oct 12, 2023 8:30:23 PM Practical2.Practical2 main
INFO: My first log
Oct 12, 2023 8:30:24 PM Practical2.Practical2 main
INFO: This is CFL Practical 2
Oct 13, 2023 5:19:13 PM Practical2.Practical2 main
INFO: My first log
Oct 13, 2023 5:19:13 PM Practical2.Practical2 main
INFO: This is CFL Practical 2
```

The status bar at the bottom indicates the cursor is at line 9, column 1, with 100% zoom, Windows (CRLF) line endings, and UTF-8 encoding.

Practical 3: Java Application for Searching a File in a Given Directory

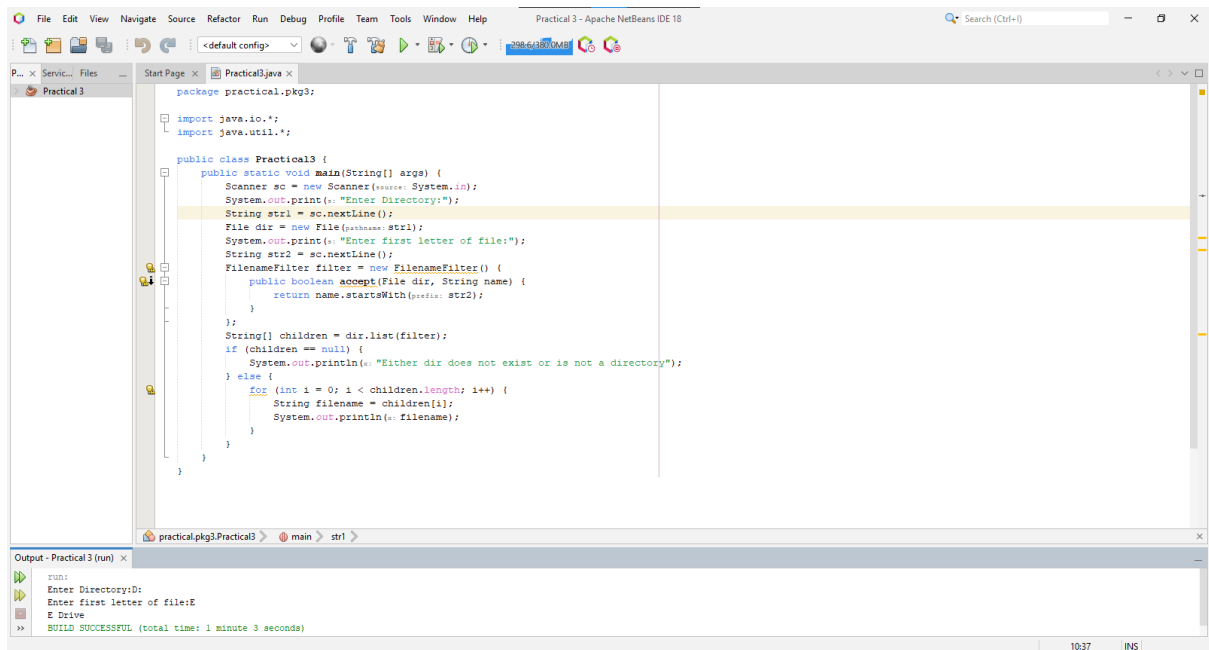
Code:

```
package practical.pkg3;

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

public class Practical3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter Directory:");
        String str1 = sc.nextLine();
        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



The screenshot displays the Apache NetBeans IDE interface. The main editor window shows a Java file named `Practical3.java` with the following code:

```
package practical.pkg3;

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

public class Practical3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter Directory:");
        String str1 = sc.nextLine();
        File dir = new File(pathname: 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(pathname: 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);
            }
        }
    }
}
```

The IDE's status bar at the bottom indicates the current execution context: `practical.pkg3.Practical3`, `main`, and `str1`.

The Output window at the bottom shows the program's execution results:

```
run:
Enter Directory:D:
Enter first letter of file:E
E Drive
BUILD SUCCESSFUL (total time: 1 minute 3 seconds)
```

The bottom right corner of the IDE shows the time `10:37` and the user `INS`.

Practical 4: Java Application to Search for a Particular Word in a File

Code:

```
import java.io.File;
import java.io.FileReader;
import java.io.BufferedReader;
import java.util.Scanner;

public class WordSearch {
    public static void main(String[] args) throws Exception {
        int cnt = 0;
        String s;
        String[] buffer;
        File f1 = new File("D://file.txt");
        FileReader fr = new FileReader(f1);
        BufferedReader bfr = new BufferedReader(fr);
        Scanner sc = new Scanner(System.in);

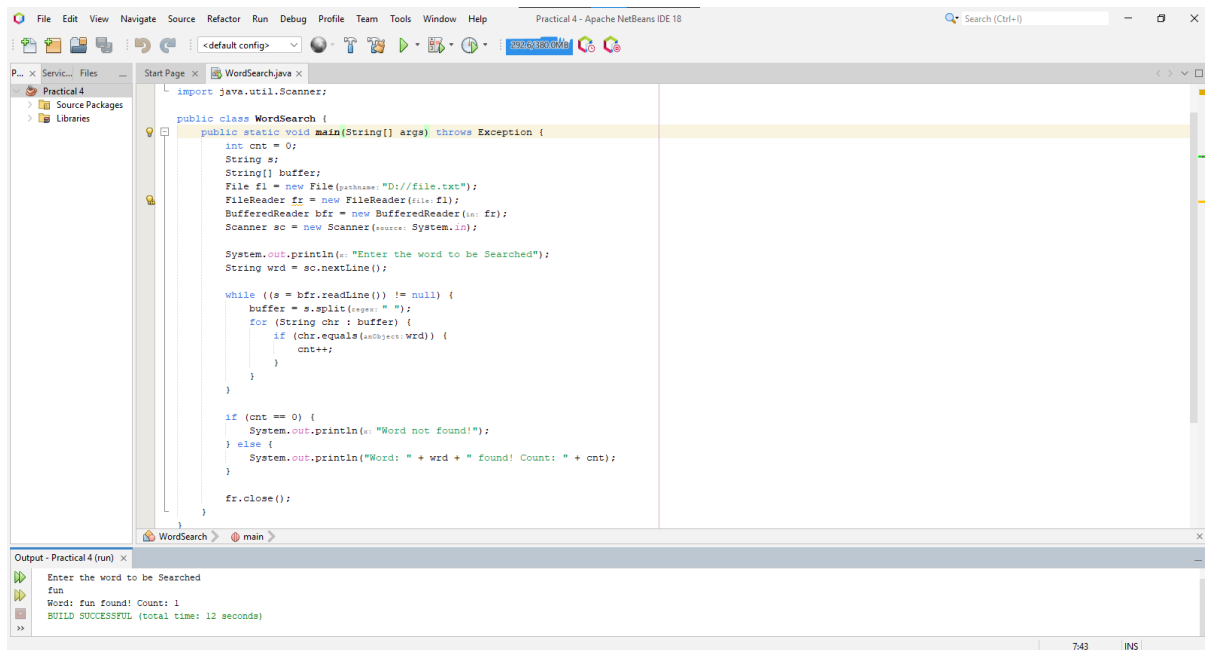
        System.out.println("Enter the word to be Searched");
        String wrd = sc.nextLine();

        while ((s = bfr.readLine()) != null) {
            buffer = s.split(" ");
            for (String chr : buffer) {
                if (chr.equals(wrd)) {
                    cnt++;
                }
            }
        }

        if (cnt == 0) {
            System.out.println("Word not found!");
        } else {
            System.out.println("Word: " + wrd + " found! Count: " + cnt);
        }

        fr.close();
    }
}
```


OUTPUT



The screenshot displays the Apache NetBeans IDE interface. The main editor window shows the source code for a Java class named `WordSearch`. The code imports `java.util.Scanner` and implements a `main` method that reads a file, searches for a word, and prints the results. The output window at the bottom shows the execution results, including the input word "fun", the search result "Word: fun found! Count: 1", and a successful build status.

```
import java.util.Scanner;

public class WordSearch {

    public static void main(String[] args) throws Exception {

        int cnt = 0;
        String s;
        String[] buffer;
        File f1 = new File("D://file.txt");
        FileReader fr = new FileReader(f1);
        BufferedReader bfr = new BufferedReader(fr);
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the word to be Searched");
        String wrd = sc.nextLine();

        while ((s = bfr.readLine()) != null) {
            buffer = s.split(" ");
            for (String chr : buffer) {
                if (chr.equals(wrd)) {
                    cnt++;
                }
            }
        }

        if (cnt == 0) {
            System.out.println("Word not found!");
        } else {
            System.out.println("Word: " + wrd + " found! Count: " + cnt);
        }

        fr.close();
    }
}
```

Output - Practical 4 (run)

```
Enter the word to be Searched
fun
Word: fun found! Count: 1
BUILD SUCCESSFUL (total time: 12 seconds)
```

7:43 INS

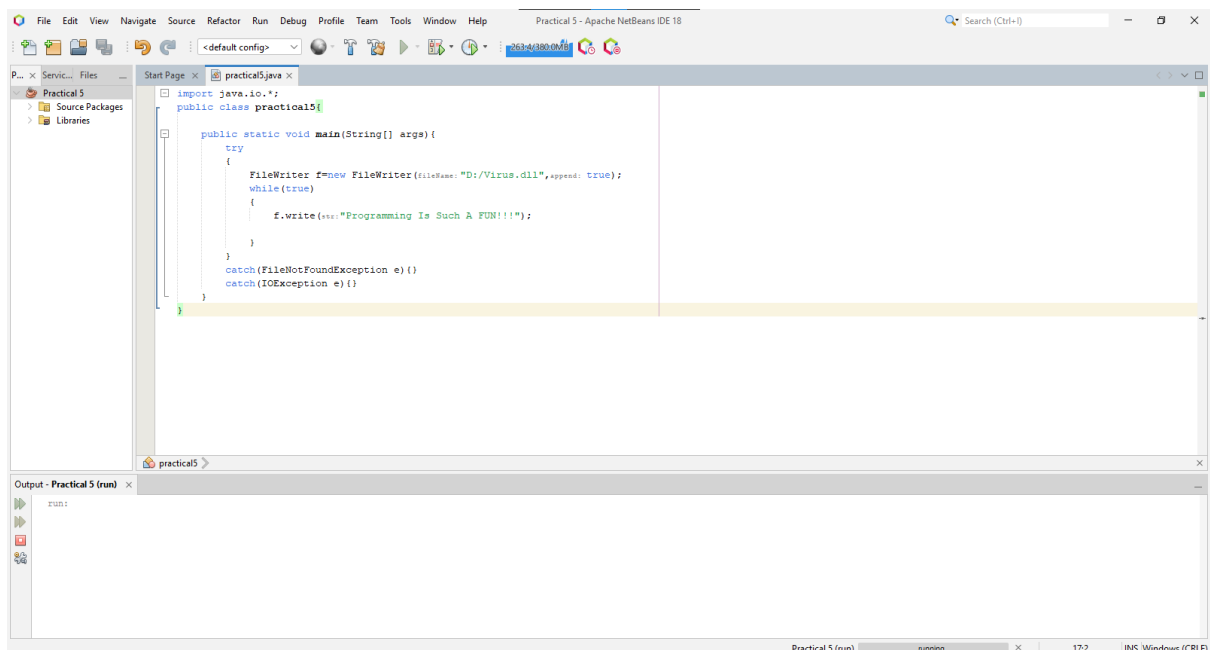
Code:

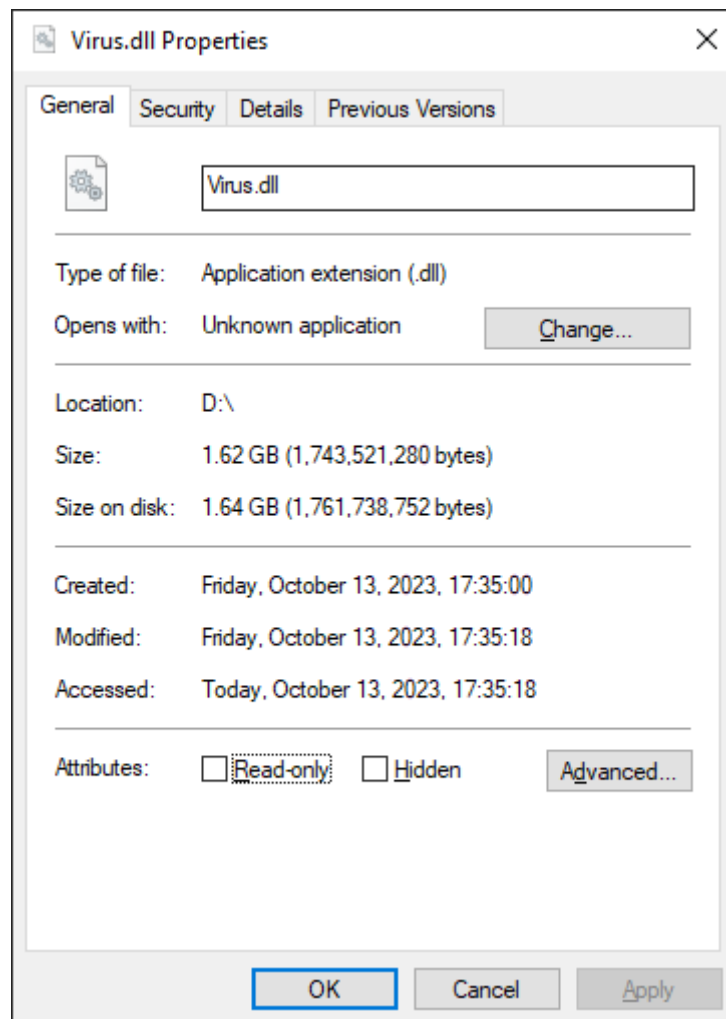
```
import java.io.*;
public class practical5{

    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





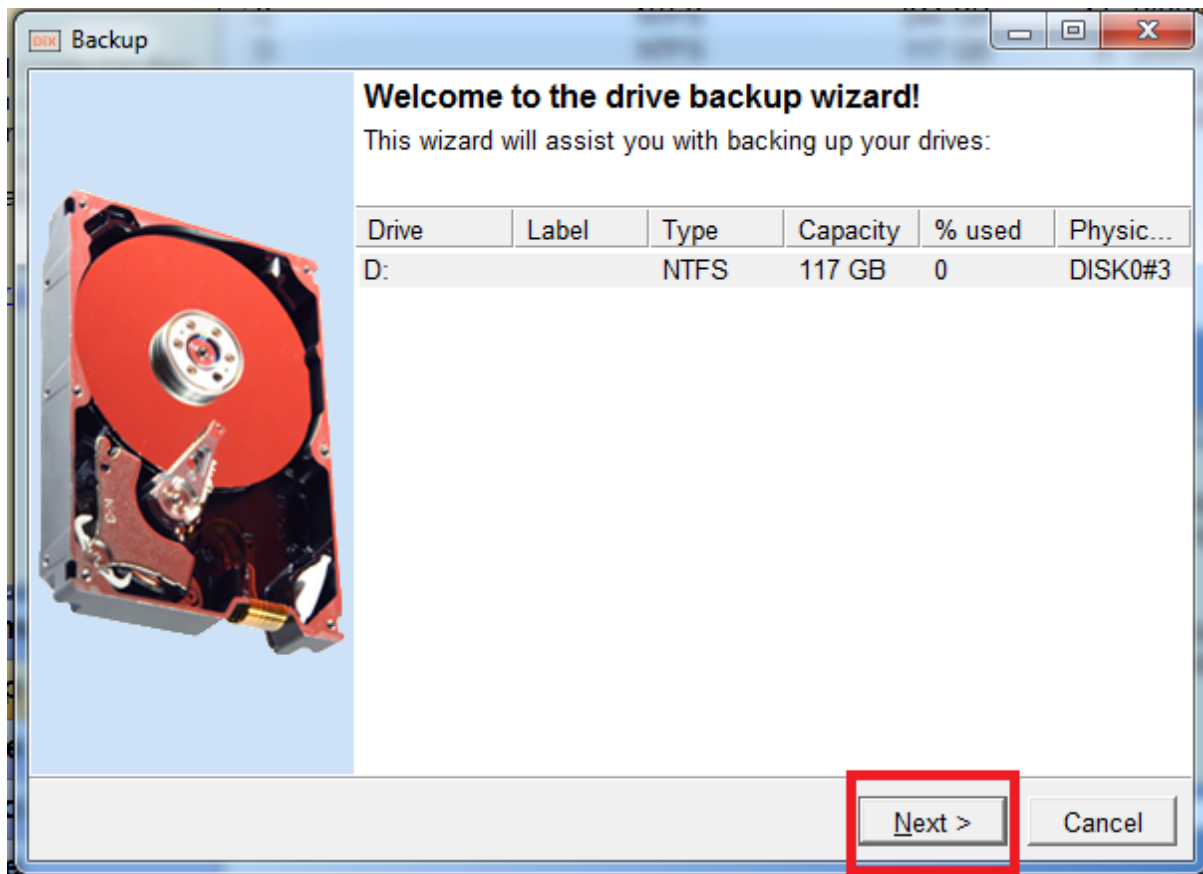
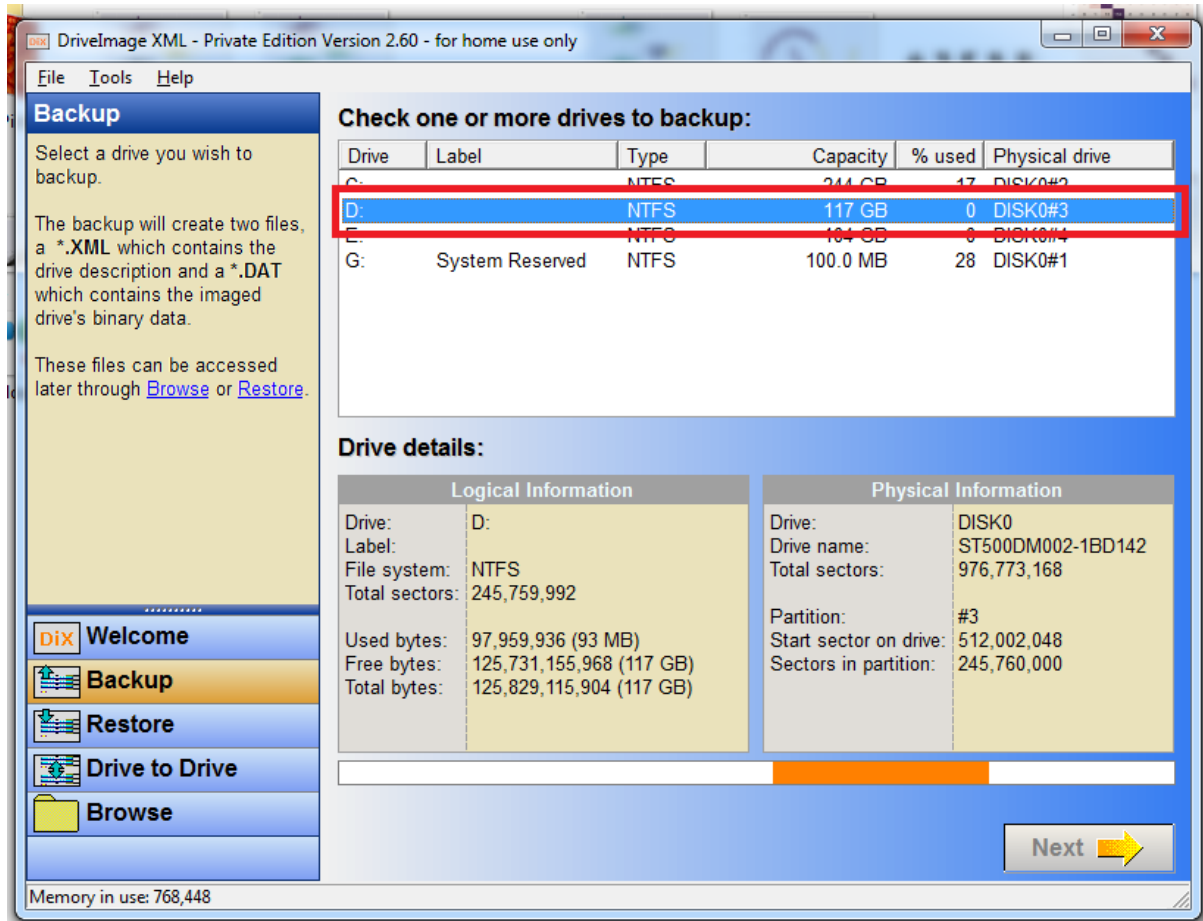
Practical 6: To use DriveImage XML for imaging a hard drive

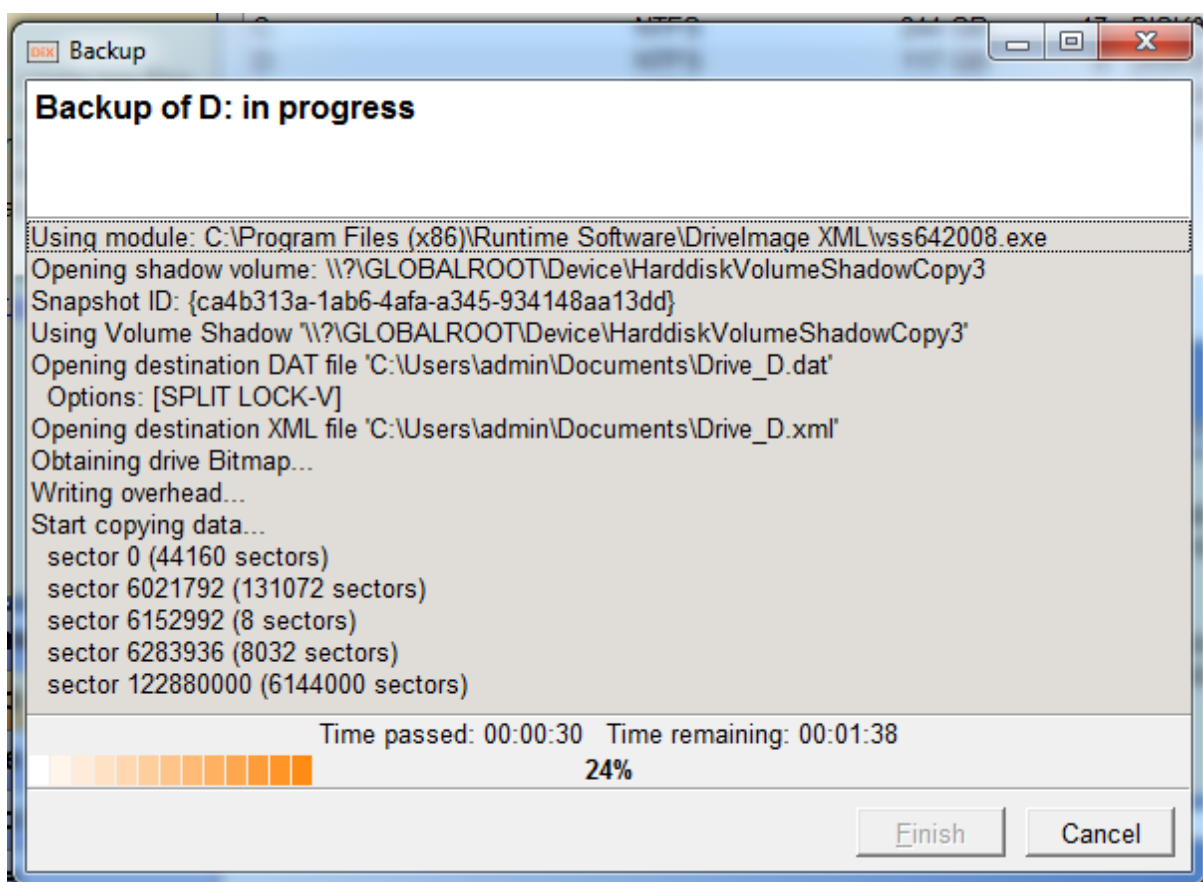
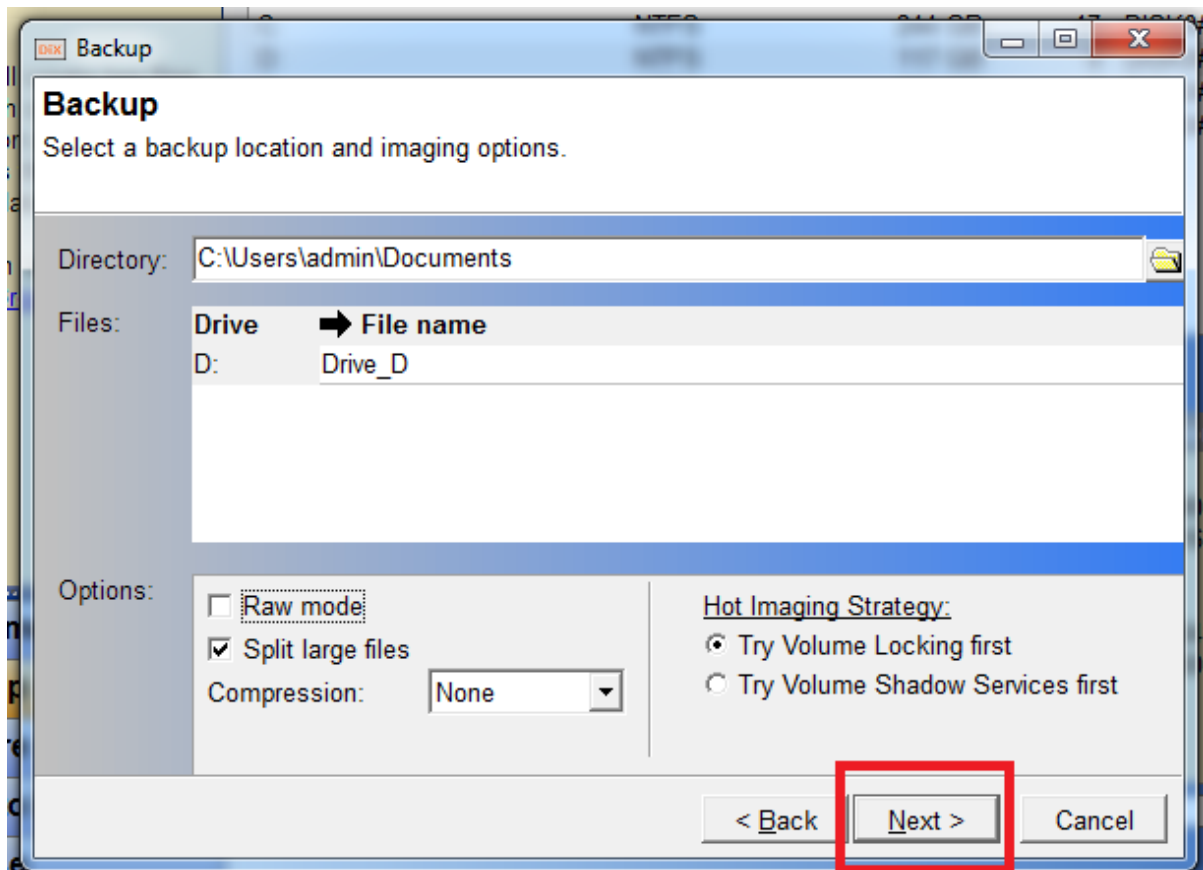
Instructions:

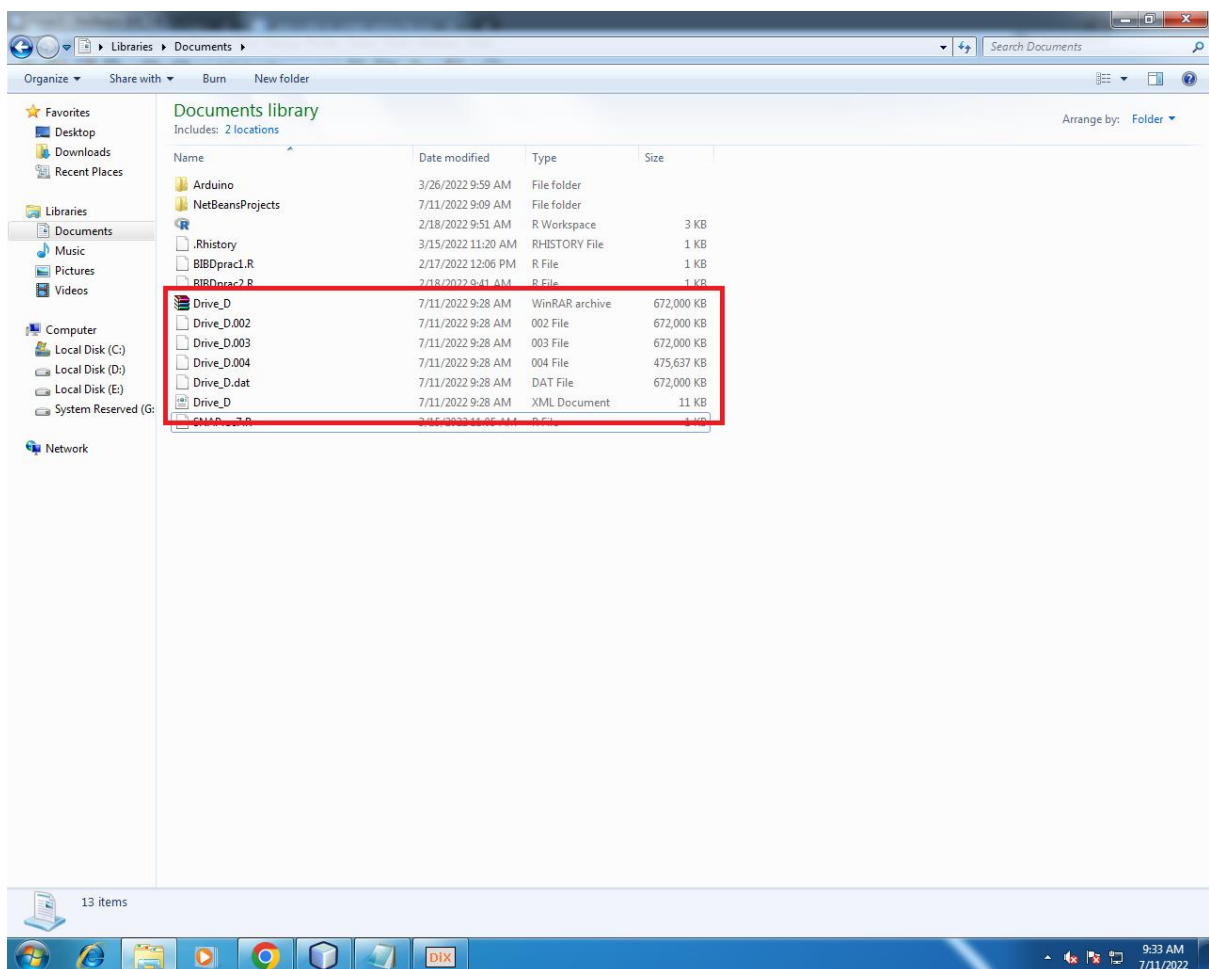
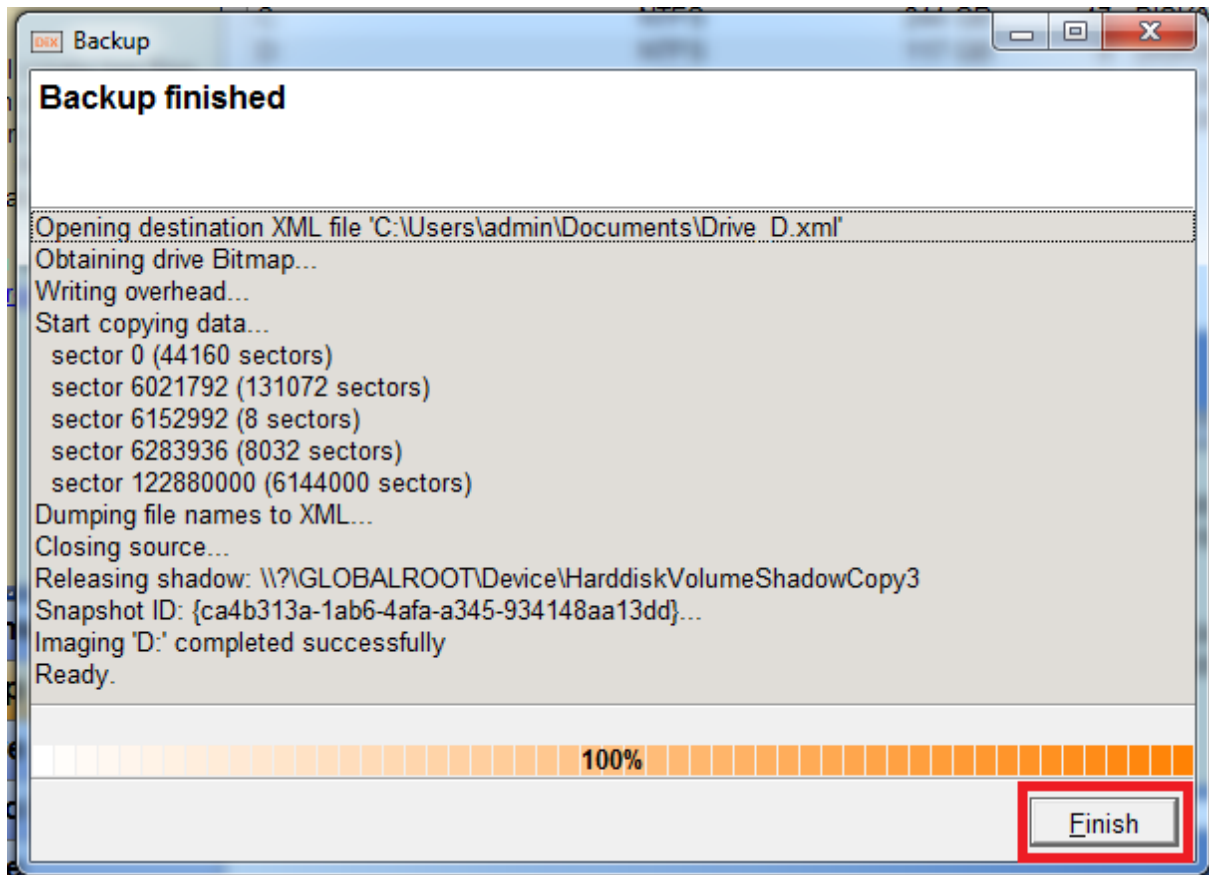
1. After opening DriveImage XML, click on "File" > "Backup," or simply press Ctrl + B. A new page will appear, showing you the list of all available drives. (Clicking on each drive will show its logical and physical information.)
2. Now, select the disk you want to back up (in our case, we will select D:) and then click "Next." After clicking "Next," a popup window will appear showing the drive you've selected. Click "Next" to proceed.
3. The next step asks where you want to back up your drive. In the "Directory" section, enter the location where you want to back up your drive, or leave it as the default location. I suggest backing up in a folder, as the backup process will create multiple files.
4. Leave the options like "Raw mode," "Split large files," and "Hot Imaging Strategy" at their default values. You can choose the compression method as "fast" or leave it as "none." Then click "Next." The backup process will start for your selected drive and provide you with an estimated time for completion.
5. While the drive is being backed up, you will not be able to use it until the process is complete. The duration of the process depends on the amount of data present on the drive being backed up. Less data means a faster backup.
6. Once the process is complete, you will see the backed-up drive split into multiple files. In our case, it was named as "Drive_D," "Drive_D.002," "Drive_D.003," and so on, along with the "Drive_D.xml" file.

OUTPUT









Practical 7: Create forensic images of digital devices from volatile data, such as memory, using an imager for computer systems

Instructions:

After opening Accessdata FTK Imager, click on "File" > "Create Disk Image."

1. A popup window will appear, asking you to select the source like Physical drive, logical drive, etc. Select "Contents of a Folder" and click "Next." A warning message will appear regarding the files that can be backed up and files that can't. Proceed by clicking "Yes."
2. Now, it will ask for the source path, basically the folder you want to image. Click on the browse button and select any folder you want to image. After entering the source path, click "Finish."
3. A new window will appear, showing your image source (the folder of which the image is being created) and the image destination, where you want the image to be saved.
4. Click on the "Add" button; a popup window will appear, asking you for details like Case number, Evidence Number, Unique Description, Examiner, and notes. Fill in those details as follows:
 - Case number: 20
 - Evidence Number: 01
 - Unique Description: Network Data
 - Examiner: (enter your name here)
 - Notes: sensitive data
5. After filling in the above details, click "Next."
6. Another popup window will appear, asking for the "image destination folder." Here, provide the location where you want to save the image. Under the "Image Filename" option, enter the name you want to give to your image file. In this case, we'll name it

"NetworkData." Leave all other fields like "Image Fragment Size" and "Compression" at their default values and click "Finish."

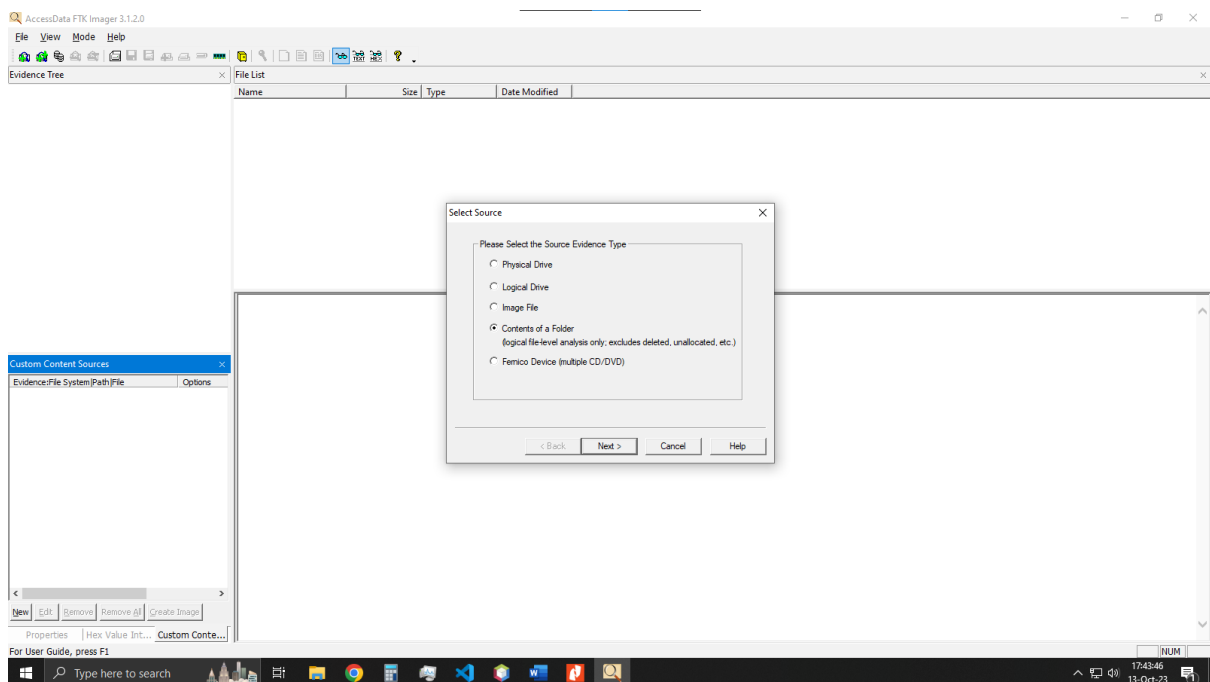
7. Once done, it will display the location of the source and the destination. Leave options like "Verify images after they are created", "Precalculate progress statistics", and "Create directory listings of all files in the image after they are created" at their default values and click "Start."

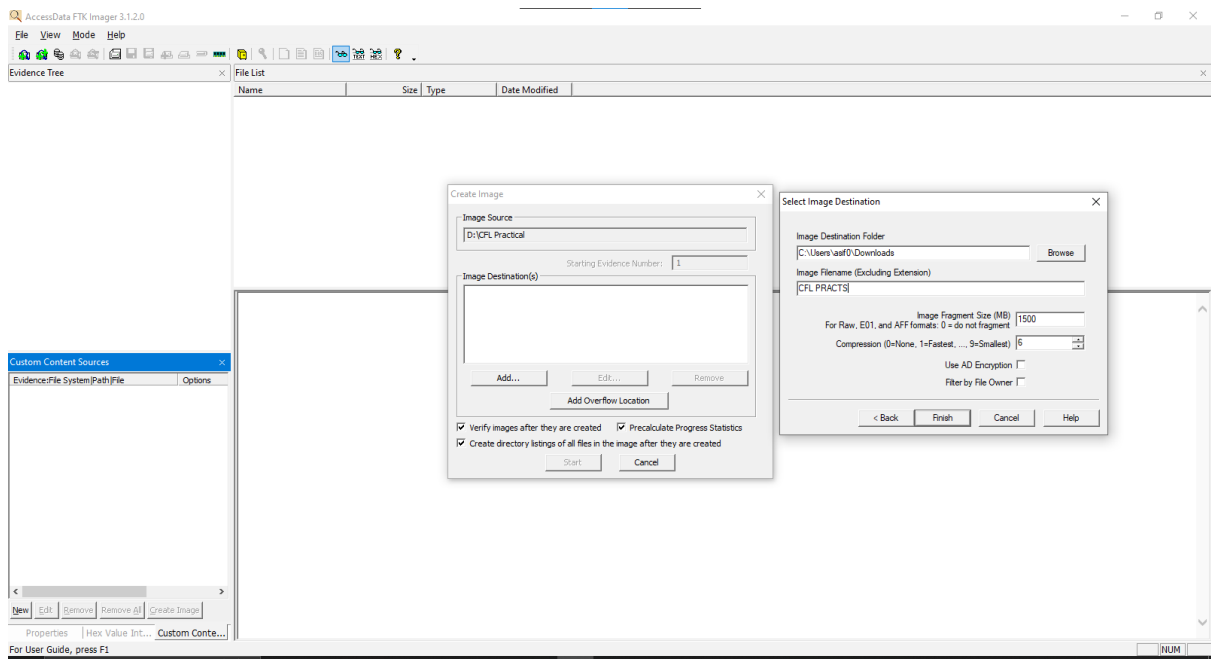
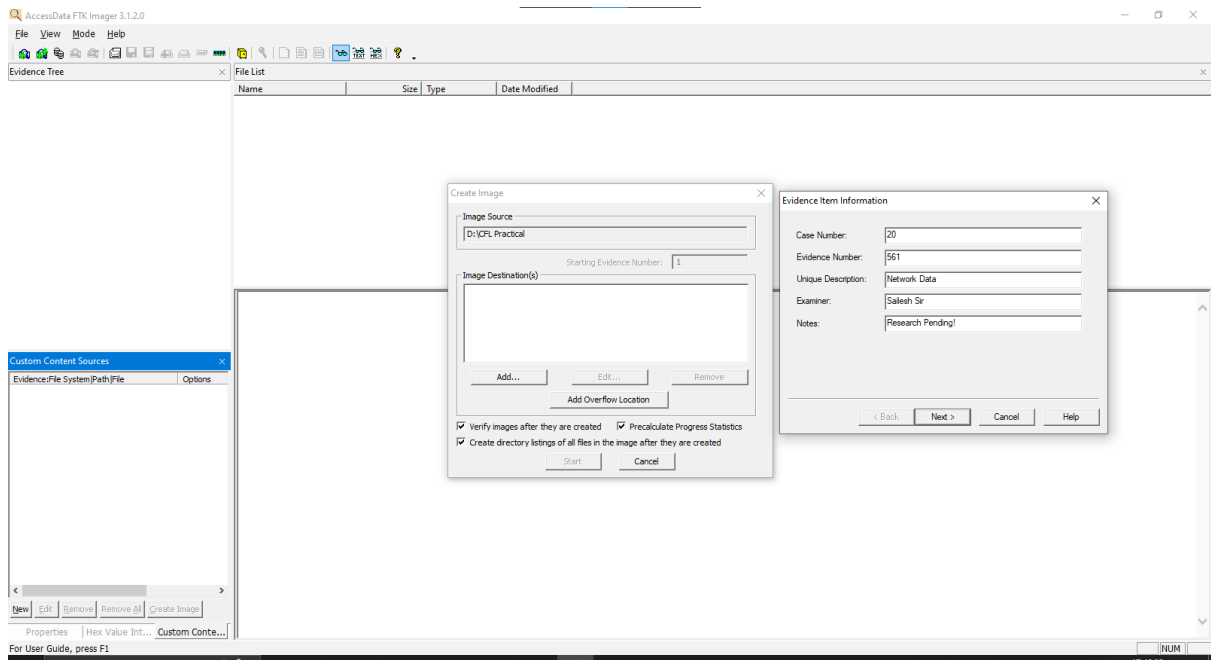
8. A new window will appear, showing the source and destination, along with the status as "Creating image" and a progress bar, as well as the estimated time. The time of the process will depend on the data present in the source folder; the larger the data, the longer it will take.

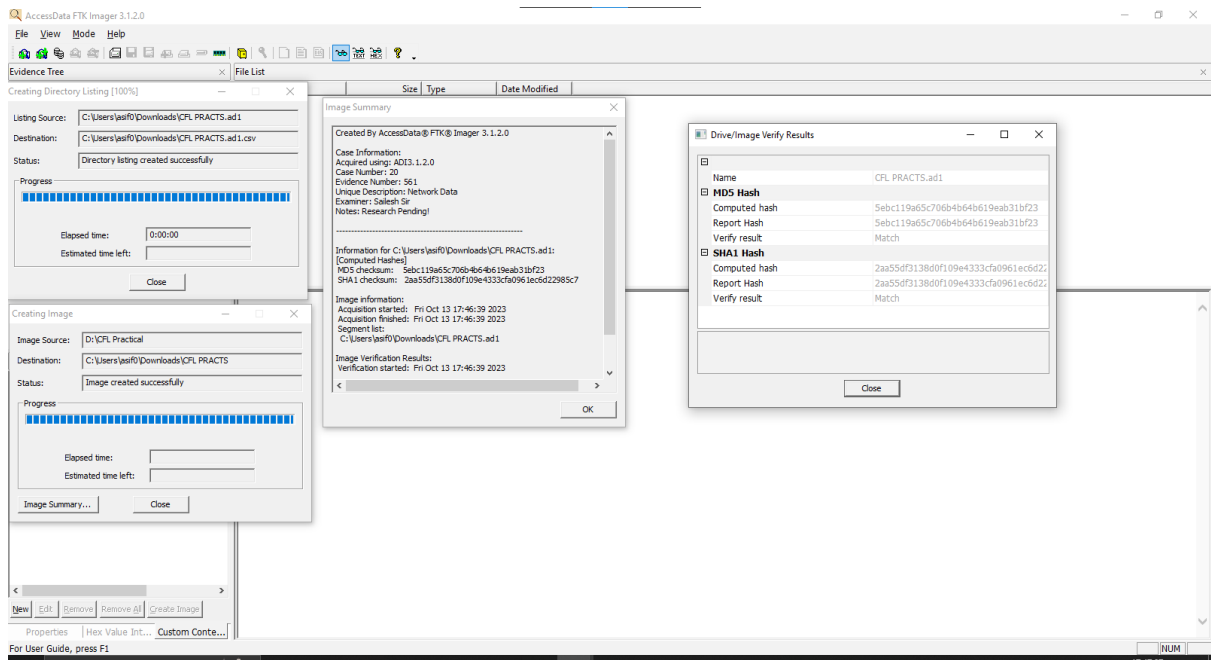
9. When the process is complete, it will automatically open a window and display the MD5 Hash and SHA1 Hash values of the created image.

10. You can click on the "Image Summary" button to view detailed information about the created image file.

OUTPUT







Practical 8: Recovering and inspecting deleted files.

Instructions:

Run the program as an administrator.

1. After opening Autopsy, click on "New Case". You will be prompted for case information.

2. Enter the case name as "Recover Files", and in the base directory, input the location where you want to recover the files. Now click on "Next".

3. You will now be asked for optional information. please enter the following details:

- Case Number: 26
- Name: (Your Name)
- Phone Number: (Any 10-digit number)
- Email: (Any email address)
- Notes: Recovery of deleted data

Once you have entered these details, click on the "Finish" button.

4. A new window named "Select Host" will appear. Choose "Generate a new host name based on the data source name" and then click "Next".

5. Now, select the data source type as "Local Disk" and click "Next".

6. You will be prompted to specify the location of the data source. Provide the location of the drive where the "cflpractical" folder was created (in our case, it is the D drive).

7. Leave all other values as default and click "Next".

8. Under the "Configuration Ingest" section, ensure that all titles are checked. If not, click the "Select All" button to choose all titles, and then click "Next".

9. The process will commence to process the data source and add it to the local database. The time taken for this process will depend on the data present on the drive.

10. Once the process is complete, a message will appear stating that the data source has been added to the local database and files are being analyzed. Click "Finish".

11. On the left, you will see the drive you selected as the data source (in our case, it was the D drive).

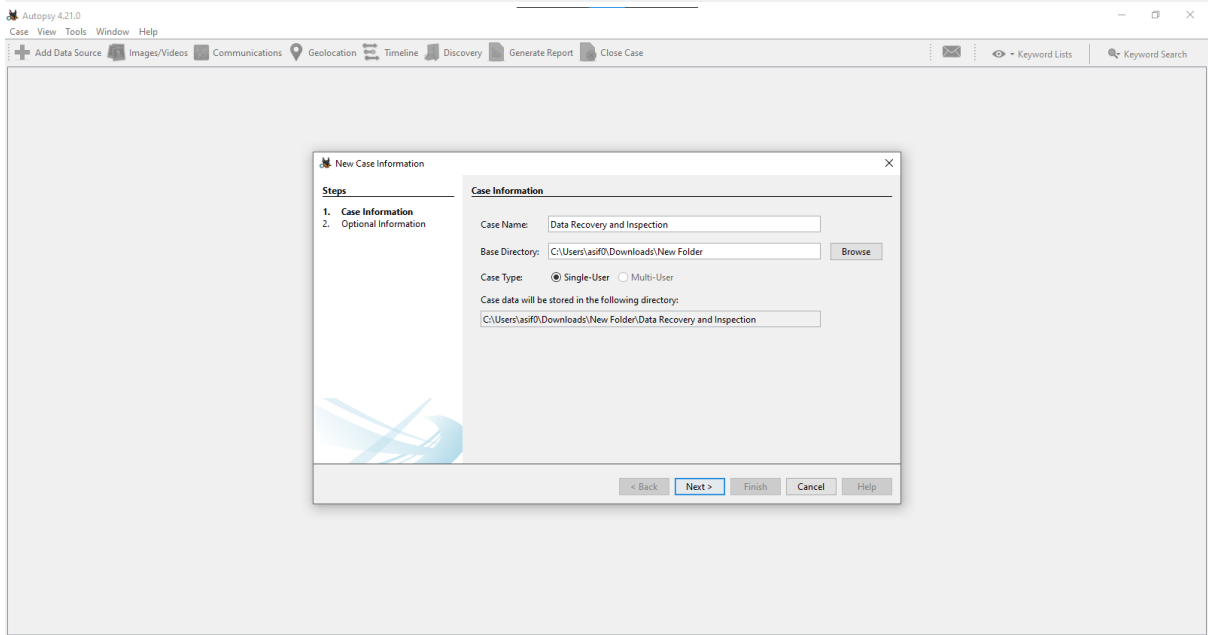
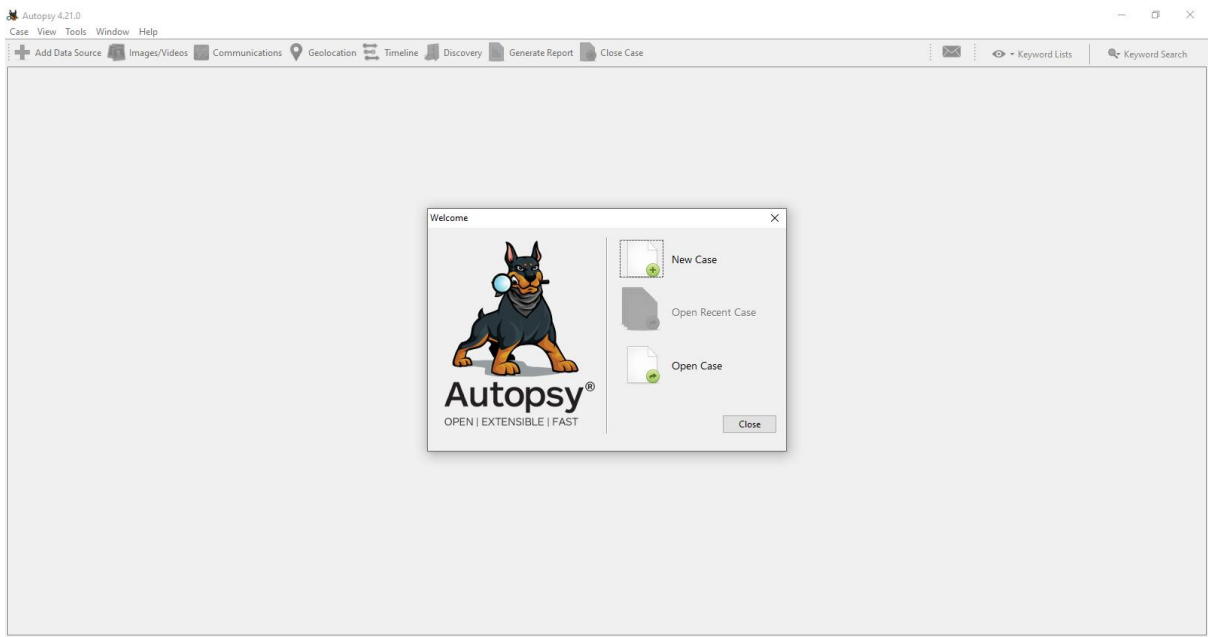
12. Now navigate to where the "cflpractical" folder was created. Select the folder, right-click, and choose "Extract File". It will ask for the extraction location for the deleted folder. Specify your desired location. Once done, a message will confirm that the file has been extracted.

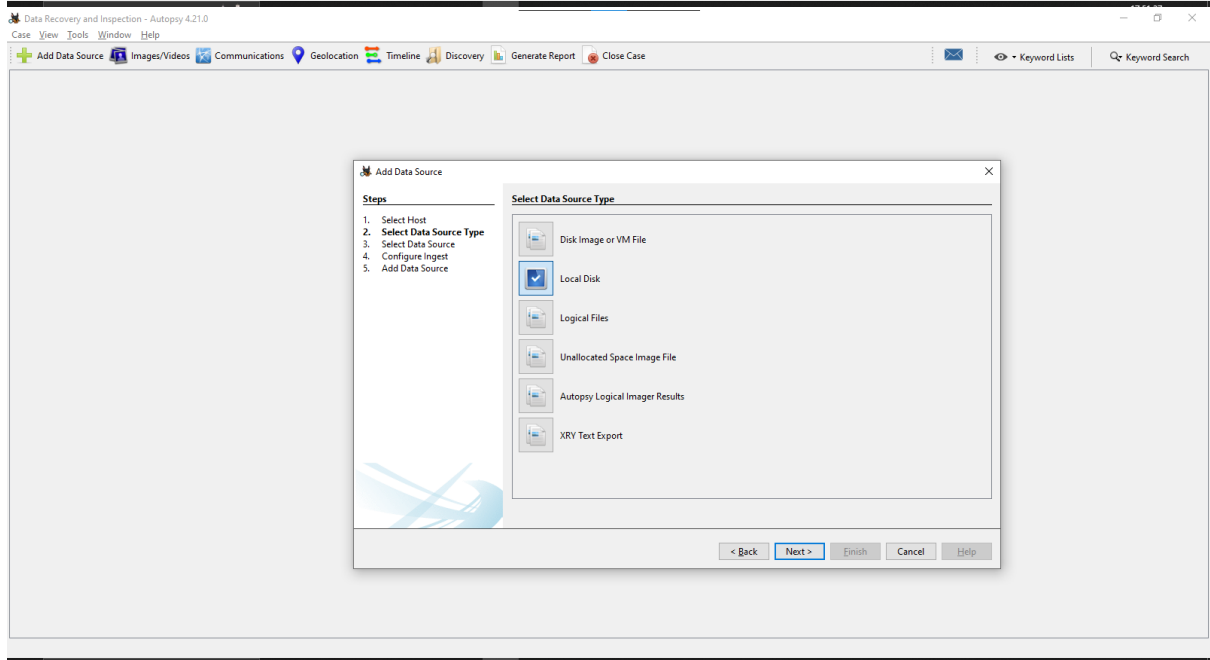
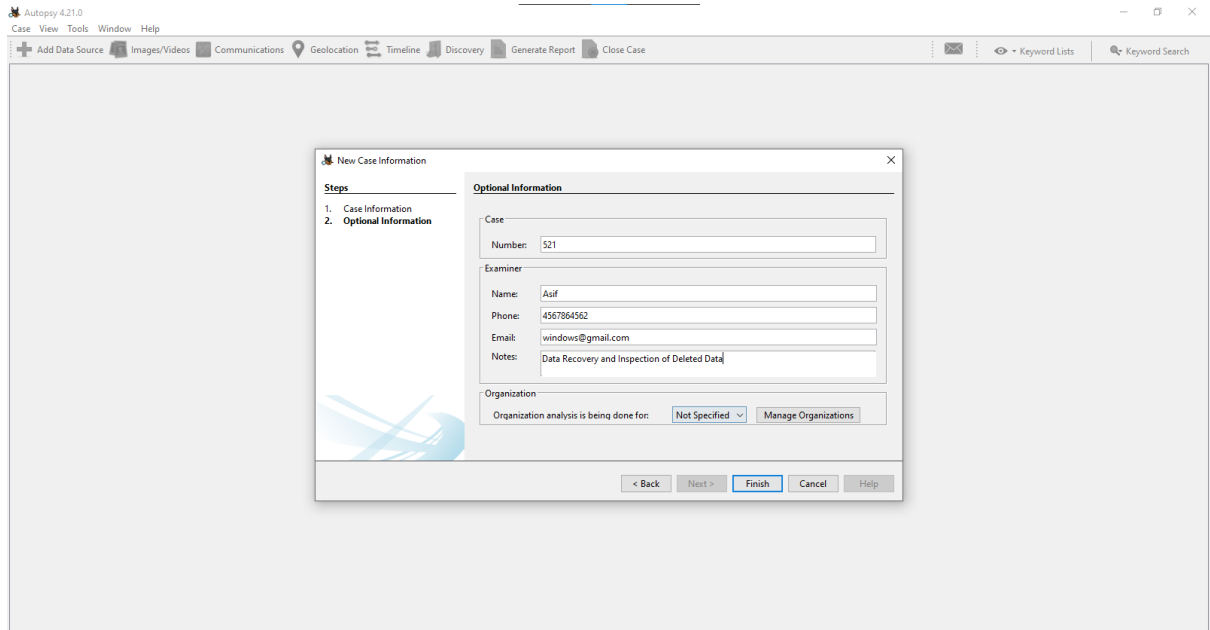
13. You can now check that the folder has been recovered, along with the files that were present in it.

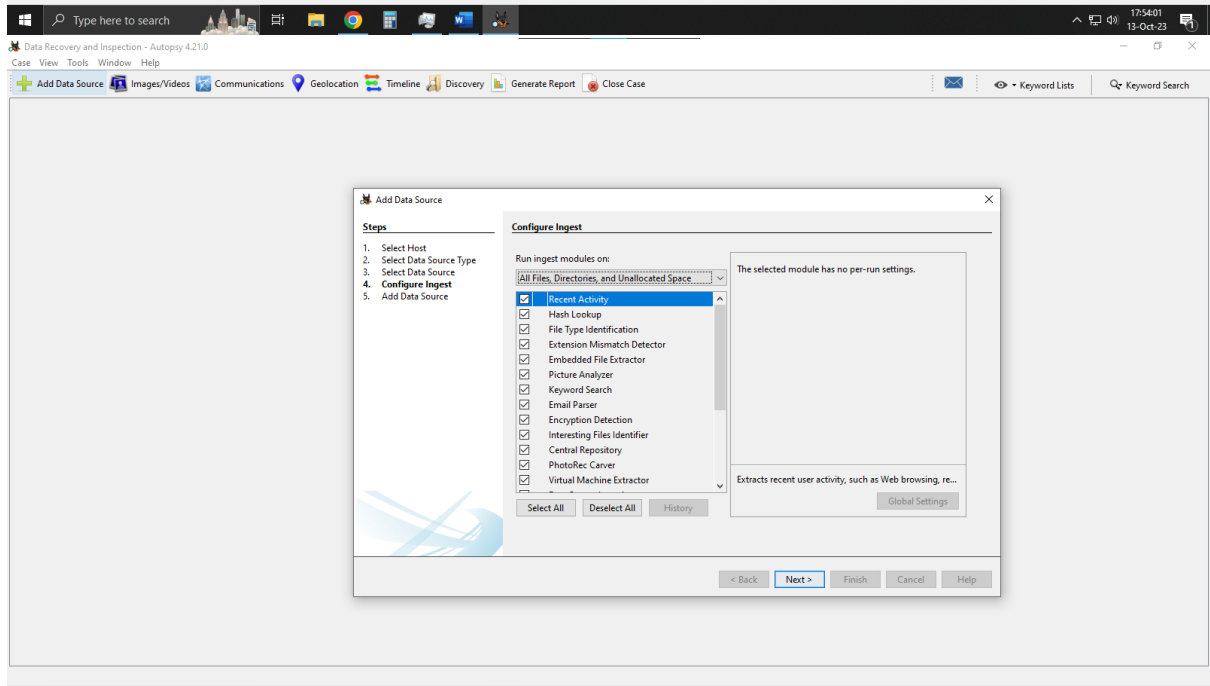
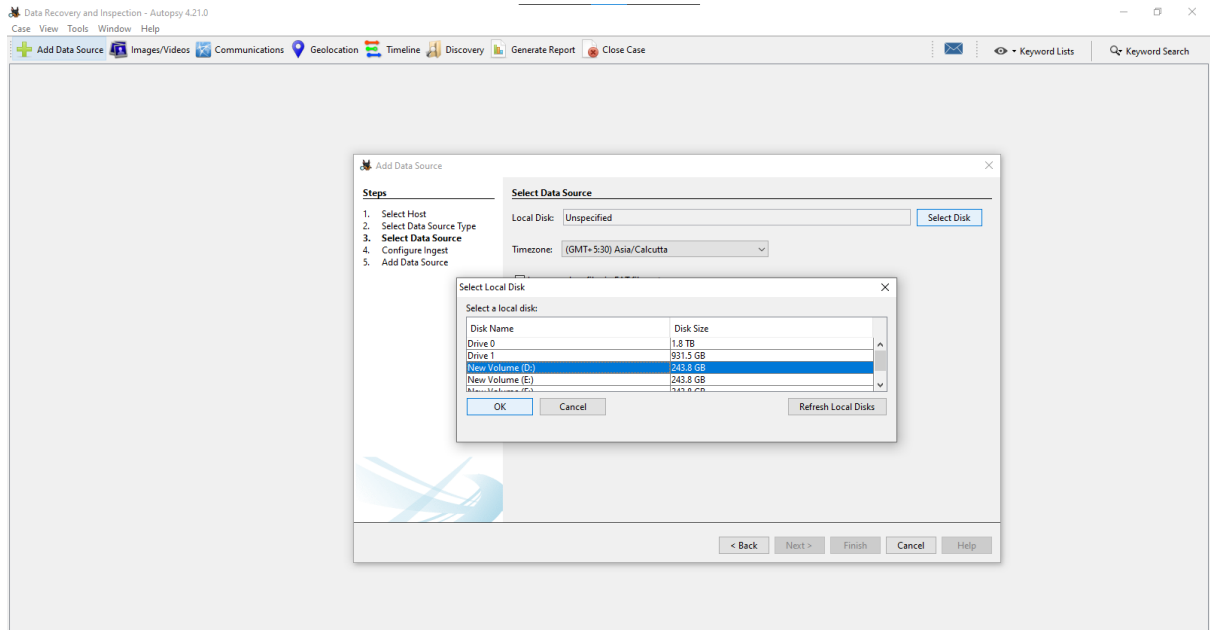
14. In Autopsy, go to "Tools", then "Generate Report". Select an Excel report and click "Next". It will ask for the data source. Check the drive that was selected and click "Next". Now, select all results and click "Finish".

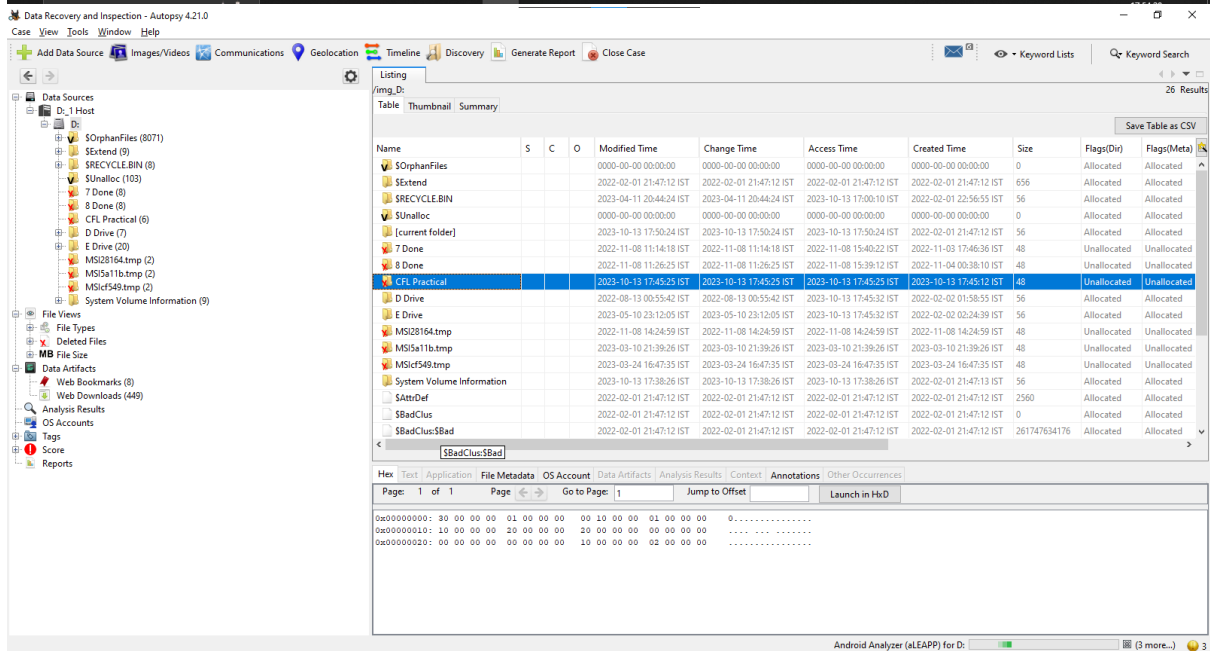
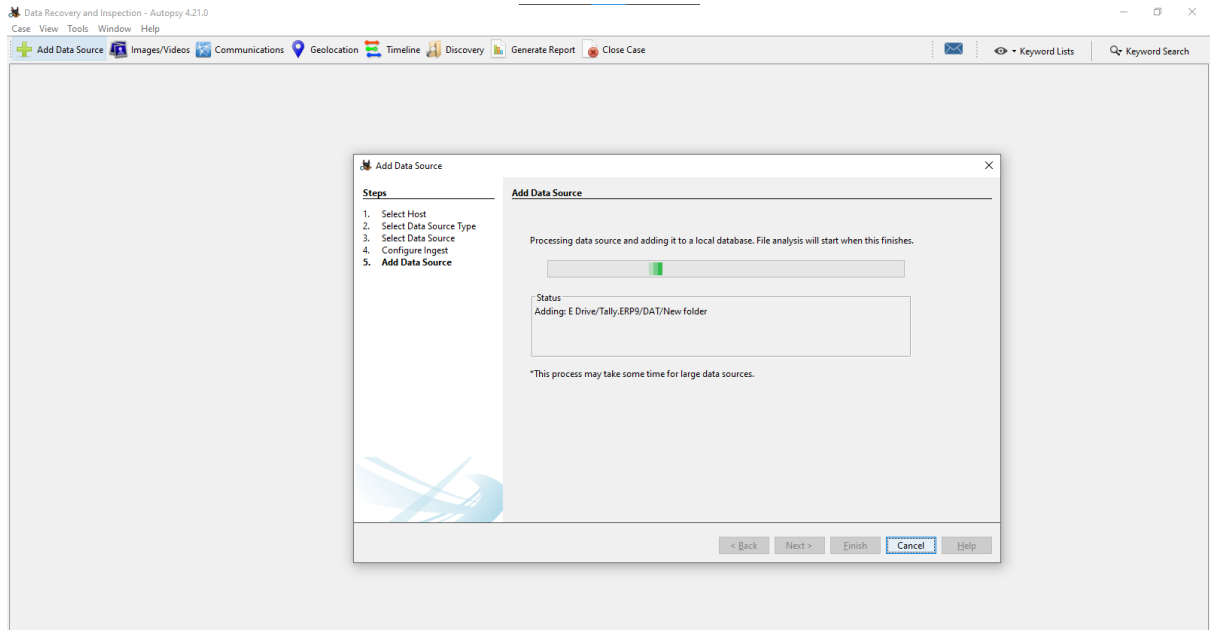
15. An Excel report will be created, summarizing the details of the case.

OUTPUT









Practical 9: Access relevant information from the Windows registry for the investigation process using the registry view.

Instructions:

When on desktop, press the Windows + R keys. A Run menu will open. Now type "regedit" to open the Registry Editor.

Wireless Evidence in the Registry

Navigate to

"HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\NetworkList\Profiles".

You'll see one or more profiles listed there as "{05ABDF56-B63C-4A43-A390-5838DFB77A3C}".

In this registry, Windows stores information about network profiles that the computer has connected to, such as Wi-Fi networks or Ethernet connections.

RecentDocs Key

Navigate to

"HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\RecentDocs.docx". It's used to store information about the recent documents that a user has accessed.

TypedURLs Key

Navigate to "HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\TypedURLs".

In this registry, Internet Explorer stores the history of URLs (web addresses) that you have typed into the address bar.

IP Address

Navigate to

"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\Tcpip\Parameters\Interfaces". This is the Windows Registry where configuration settings for network interfaces are stored.

Startup Location in the Registry

Navigate to

"HKEY_LOCAL_MACHINE\SOFTWARE\MICROSOFT\WINDOWS\CurrentVersion\Run". Here, in the Windows Registry, startup programs and processes are configured to run automatically when the computer starts up.

RunOnce Startup

Navigate to

"HKEY_LOCAL_MACHINE\SOFTWARE\MICROSOFT\WINDOWS\CurrentVersion\RunOnce". Here you can configure programs and processes to run once when the computer starts up.

Startup Services

Navigate to

"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services".

Here, configuration settings for system services are stored. Services are background processes that run independently of the user's interaction.

Start Legacy Application

Navigate to

"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\WDI".

This is related to the Windows Diagnostic Infrastructure (WDI). WDI is a framework in the Windows operating system designed to collect and manage diagnostic and performance data.

Start When a Particular User Logs On

Navigate to

"HKEY_LOCAL_MACHINE\SOFTWARE\MICROSOFT\WINDOWS\CurrentVersion\Run". This is the Windows Registry where you can configure programs and processes to run automatically

when the computer starts up for all users.

USB Storage Device

Navigate to

"HKEY_LOCAL_MACHINE\SYSTEM\ControlSet00X\Enum\USBSTOR".

This is where information about connected USB storage devices is stored.

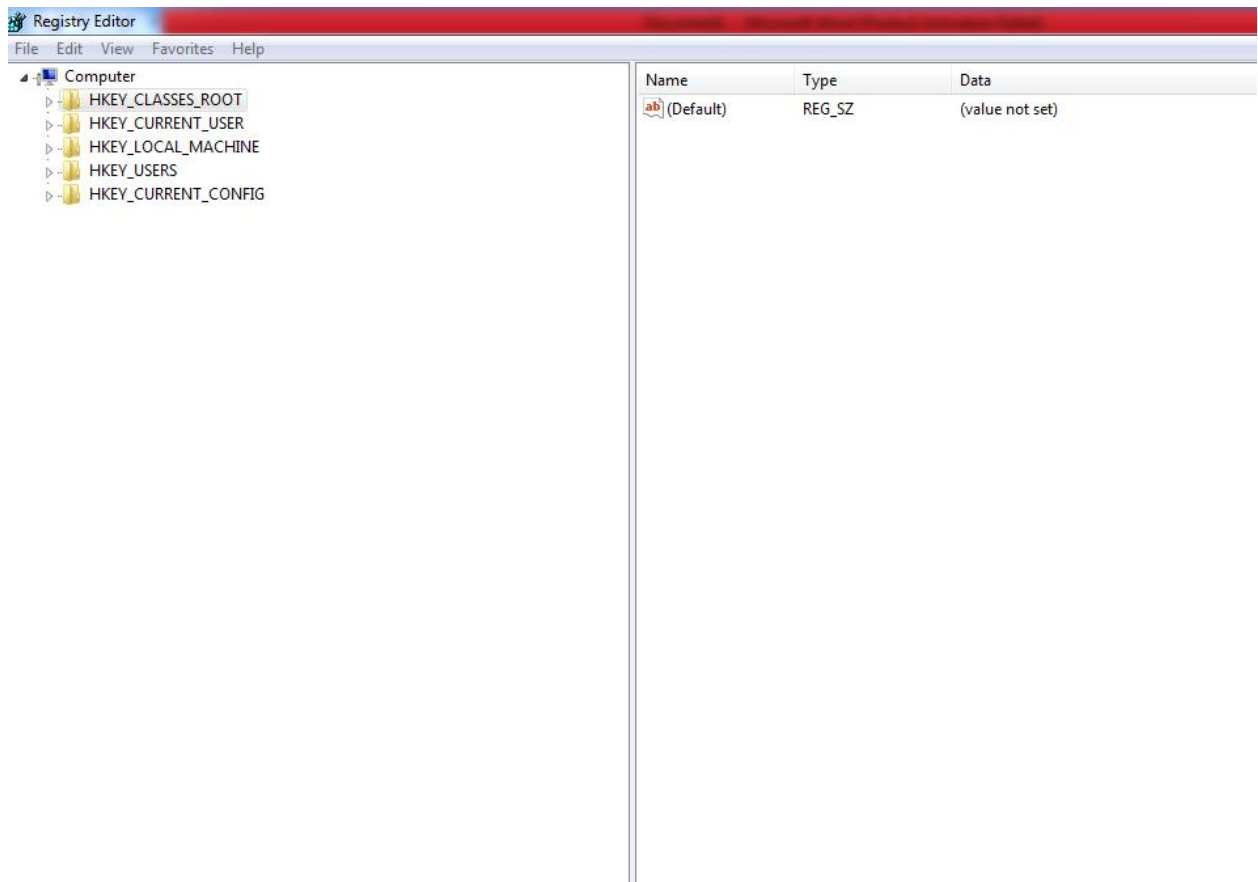
Mounted Devices

Navigate to

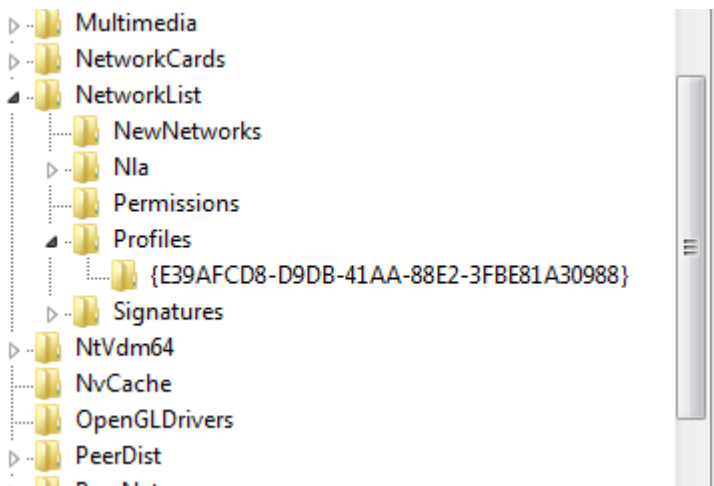
"Computer\HKEY_LOCAL_MACHINE\SYSTEM\MountedDevices".

Here, information about mounted storage devices and their associated drive letters is stored.

OUTPUT



Wireless evidence in the registry.



RecentDocs key

File Edit View Favorites Help

AutoplayHandlers

BitBucket

CabinetState

CD Burning

CIDOpen

CIDSave

CLSID

ComDlg32

Discardable

DontShowMeThisDialogAgain

FileExts

HideDesktopIcons

LowRegistry

MenuOrder

Modules

MountPoints2

NewShortcutHandlers

RecentDocs

- .adl
- .csv
- .docx
- .gif
- .html
- .ino
- .ipynb
- .iso
- .java
- .jpg
- .log
- .pdf
- .png
- .pptx
- .py
- .pyc
- .R
- .rar
- .txt
- .xlsx
- .xml
- .zip
- Folder

- RunMRU
- SearchPlatform
- SessionInfo
- Shell Folders
- StartPage
- StartPage2
- StreamMRU
- Streams
- StuckRects2
- Taskband

Name	Type	Data
(Default)	REG_SZ	(value not set)
0	REG_BINARY	43 00 6c 00 6f 00 75 00 64 00 5f 00 43 00 6f 00 6d 00 ...
1	REG_BINARY	6f 00 7a 00 69 00 65 00 65 00 5f 00 70 00 70 00 74 00 ...
2	REG_BINARY	38 00 37 00 5f 00 41 00 4d 00 41 00 4e 00 2d 00 4a 00...
3	REG_BINARY	41 00 64 00 76 00 61 00 6e 00 63 00 65 00 20 00 45 00...
4	REG_BINARY	44 00 4f 00 43 00 2d 00 32 00 30 00 32 00 32 00 30 00...
5	REG_BINARY	44 00 4f 00 43 00 2d 00 32 00 30 00 32 00 32 00 30 00...
6	REG_BINARY	54 00 59 00 5f 00 32 00 30 00 39 00 39 00 2e 00 64 00...
MRUListEx	REG_BINARY	06 00 00 00 05 00 00 00 04 00 00 00 03 00 00 00 02 00...

TypedURLs key

The screenshot shows the Windows Registry Editor with the 'Internet Explorer' tree expanded. The 'TypedURLs' key is selected. The right pane displays a list of registry values:

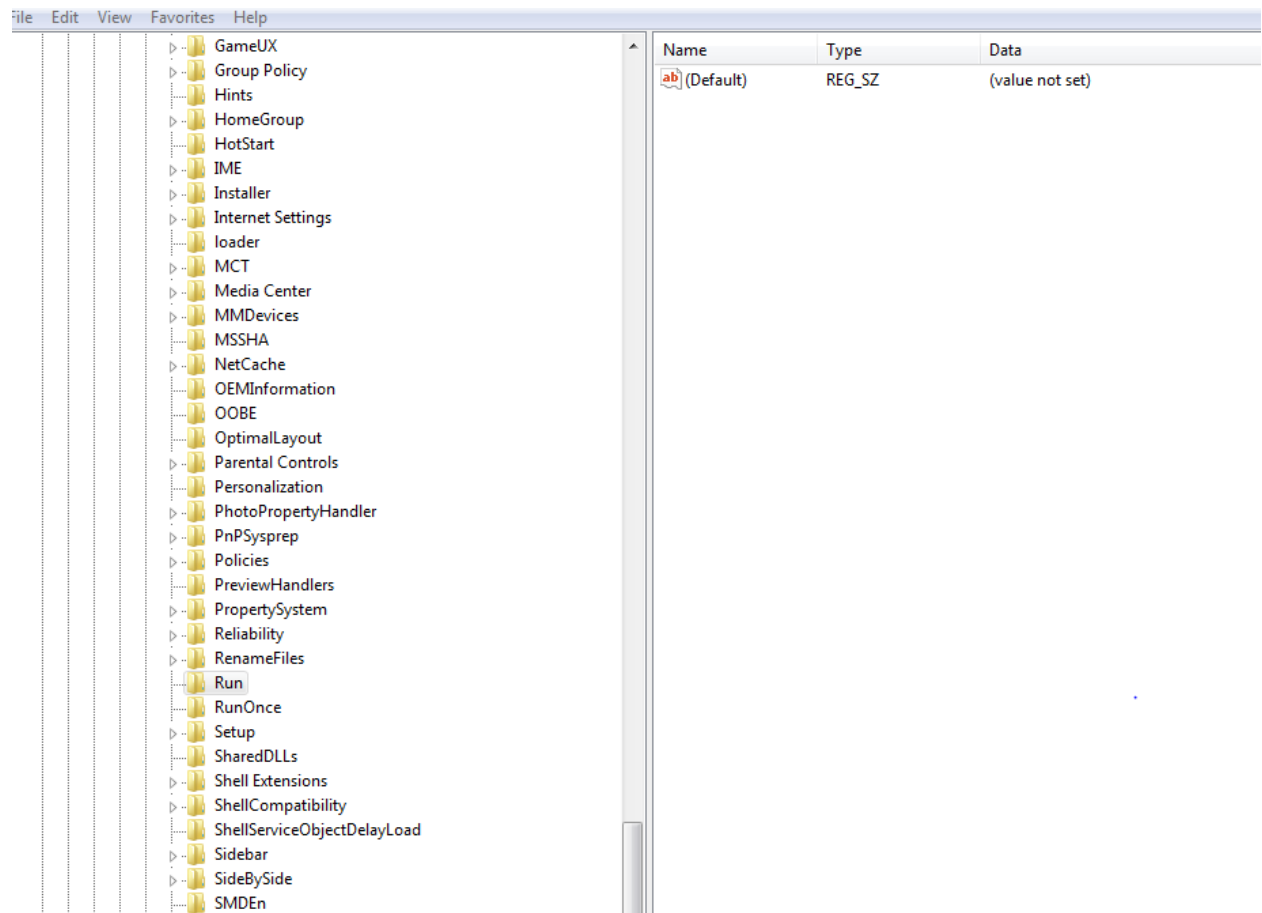
Name	Type	Data
(Default)	REG_SZ	(value not set)
url1	REG_SZ	http://go.microsoft.com/fwlink/?LinkId=69157

IP Address

The screenshot displays the Windows System Configuration utility. The left pane shows a tree view of system components, with 'Network' expanded under 'Hardware & Devices'. Under 'Network', 'Ethernet adapters' is selected, showing two adapters: 'Realtek PCIe GBE Family Controller' and 'Intel(R) Ethernet Connection I218-LM'. The right pane shows the configuration for the selected adapter, displaying various properties such as Name, Type, Data, and Status.

Name	Type	Data
(Default)	REG_SZ	(value not set)
AddressType	REG_DWORD	0x00000000 (0)
DhcpConnForce...	REG_DWORD	0x00000000 (0)
DhcpDefaultGat...	REG_MULTI_SZ	172.16.0.1
DhcpGatewayH...	REG_BINARY	ac 10 00 01 06 00 00 00 2c b8 ed 25 6e 4e
DhcpGatewayH...	REG_DWORD	0x00000001 (1)
DhcpInterfaceO...	REG_BINARY	06 00 00 00 00 00 00 04 00 00 00 00 00 00 eb 3...
DhcpIPAddress	REG_SZ	172.16.3.1
DhcpNameServer	REG_SZ	4.2.2.2
DhcpServer	REG_SZ	172.16.0.1
DhcpSubnetMask	REG_SZ	255.255.224.0
DhcpSubnetMas...	REG_MULTI_SZ	255.255.224.0
Domain	REG_SZ	
EnableDeadGW...	REG_DWORD	0x00000001 (1)
EnableDHCP	REG_DWORD	0x00000001 (1)
IsServerNapAware	REG_DWORD	0x00000000 (0)
Lease	REG_DWORD	0x00015180 (86400)
LeaseObtainedT...	REG_DWORD	0x62f5e16b (1660281195)
LeaseTerminate...	REG_DWORD	0x62f732eb (1660367595)
NameServer	REG_SZ	
RegisterAdapter...	REG_DWORD	0x00000000 (0)
RegistrationEna...	REG_DWORD	0x00000001 (1)
T1	REG_DWORD	0x62f68a2b (1660324395)
T2	REG_DWORD	0x62f708bb (1660356795)
UseZeroBroadcast	REG_DWORD	0x00000000 (0)

Startup location in the registry



RunOnce Startup

FileEditViewFavoritesHelp

GameUX

Group Policy

Hints

HomeGroup

HotStart

IME

Installer

Internet Settings

loader

MCT

Media Center

MMDevices

MSSHA

NetCache

OEMInformation

OOBE

Optimallayout

Parental Controls

Personalization

PhotoPropertyHandler

PnP Sysprep

Policies

PreviewHandlers

PropertySystem

Reliability

RenameFiles

Run

RunOnce

Setup

SharedDLLs

Shell Extensions

ShellCompatibility

ShellServiceObjectDelayLoad

Sidebar

SideBySide

SMDEn

SMI

StructuredQuery

Syncmgr

SysPrepTapi

Tablet PC

Telenhony

Name	Type	Data
ab (Default)	REG_SZ	(value not set)

Startup Services

The image shows the Windows Registry Editor. The left pane displays the tree structure expanded to **Computer > HKEY_LOCAL_MACHINE > SYSTEM > services**. The right pane shows a single registry value:

Name	Type	Data
ab (Default)	REG_SZ	(value not set)

Start Legacy Application

File Edit View Favorites Help

▶ Network

▶ NetworkProvider

▶ Nls

▶ NodeInterfaces

▶ Nsi

▶ PCW

▶ PnP

▶ Power

▶ Print

▶ PriorityControl

▶ ProductOptions

▶ Remote Assistance

▶ SafeBoot

▶ ScsiPort

▶ SecurePipeServers

▶ SecurityProviders

▶ ServiceGroupOrder

▶ ServiceProvider

▶ Session Manager

▶ SNMP

▶ SQMServiceList

▶ Srp

▶ SrpExtensionConfig

▶ StillImage

▶ Storage

▶ StorageDevicePolicies

▶ SystemInformation

▶ SystemResources

▶ TabletPC

▶ Terminal Server

▶ TimeZoneInformation

▶ usbflags

▶ usbstor

▶ VAN

▶ Video

▶ wcnscvc

▶ Wdf

▶ WDI

▶ Windows

▶ Winlogon

▶ Winresume

▶ WMI

▶ Enum

▶ Hardware Profiles

▶ Policies

▶ services

▶

111

Name	Type	Data
ab) (Default)	REG_SZ	(value not set)

Start when a particular user logs on.

The screenshot shows the Windows Registry Editor with the following structure:

- File Edit View Favorites Help
- Left pane (tree view):
 - GameUX
 - Group Policy
 - Hints
 - HomeGroup
 - HotStart
 - IME
 - Installer
 - Internet Settings
 - loader
 - MCT
 - Media Center
 - MMDevices
 - MSSHA
 - NetCache
 - OEMInformation
 - OOBE
 - OptimalLayout
 - Parental Controls
 - Personalization
 - PhotoPropertyHandler
 - PnPSysprep
 - Policies
 - PreviewHandlers
 - PropertySystem
 - Reliability
 - RenameFiles
 - Run (selected)
 - RunOnce
 - Setup
 - SharedDLLs
 - Shell Extensions
 - ShellCompatibility
 - ShellServiceObjectDelayLoad
 - Sidebar
 - SideBySide
 - SMDEn
- Right pane (table view):

Name	Type	Data
(Default)	REG_SZ	(value not set)

USB Storage device

Computer

HKEY_CLASSES_ROOT

HKEY_CURRENT_USER

HKEY_LOCAL_MACHINE

BCD00000000

HARDWARE

SAM

SECURITY

SOFTWARE

SYSTEM

ControlSet001

Control

Enum

ACPI

ACPI_HAL

DISPLAY

HDAUDIO

HID

HTREE

IDE

PCI

PCIIDE

Root

SCSI

STORAGE

SW

UMB

USB

USBSTOR

Disk&Ven_SanDisk&Prod_Cruzer_Blade&Rev_1.00

Disk&Ven_SanDisk&Prod_Cruzer_Blade&Rev_1.26

WpdBusEnumRoot

Hardware Profiles

Policies

services

Name	Type	Data
ab (Default)	REG_SZ	(value not set)

MountedDevices

Computer

HKEY_CLASSES_ROOT

HKEY_CURRENT_USER

HKEY_LOCAL_MACHINE

BCD00000000

HARDWARE

SAM

SECURITY

SOFTWARE

SYSTEM

ControlSet001

ControlSet002

CurrentControlSet

MountedDevices

RNG

Select

Setup

WPA

HKEY_USERS

HKEY_CURRENT_CONFIG

Name	Type	Data
ab (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 ...