1. Write a program to write to a file, then read from the file and display the contents on the console.

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|  | |  |
| import java.io.BufferedReader; |
|  | import java.io.FileReader; | |
|  | import java.io.FileWriter; | |
|  | import java.io.IOException; | |
|  |  | |
|  | public class CO6Q2 { | |
|  |  | |
|  | public static void main(String[] args) { | |
|  |  | |
|  | try { | |
|  | FileWriter writer = new FileWriter("f1.txt",true); | |
|  | writer.write("new file is created"); | |
|  | writer.close(); | |
|  | FileReader reader = new FileReader("f1.txt"); | |
|  | BufferedReader br= new BufferedReader(reader); | |
|  | String line; | |
|  | System.out.println("Data read from the file"); | |
|  | while ((line = br.readLine()) != null) { | |
|  | System.out.println(line); | |
|  | } | |
|  | reader.close(); | |
|  |  | |
|  | } catch (IOException e) { | |
|  | System.out.println("-----Error-----"); | |
|  | } | |
|  |  | |
|  | } | |
|  |  | |
|  | } | |

1. Write a program that reads from a file having integers. Copy even numbers and odd

numbers to separate files.

import java.io.\*;

class FileOddEven

{

public static void main(String[] args)throws IOException

{

int i;

File num=new File("integers.txt");

FileOutputStream fos=new FileOutputStream(num);

DataOutputStream dos=new DataOutputStream(fos);

try

{

for(i=1;i<=10;i++)

{

dos.writeInt(i);

}

}

catch(IOException e)

{

System.out.println(e);

}

dos.close();

fos.close();

FileInputStream fis=new FileInputStream(num);

DataInputStream dis=new DataInputStream(fis);

File num1=new File("odd.txt");

FileOutputStream fos1=new FileOutputStream(num1);

DataOutputStream dos1=new DataOutputStream(fos1);

File num2=new File("even.txt");

FileOutputStream fos2=new FileOutputStream(num2);

DataOutputStream dos2=new DataOutputStream(fos2);

try

{

System.out.println("File Content ");

for(int j=1;j<=10;j++)

{

i=dis.readInt();

if(i%2==0)

dos2.writeInt(i);

else

dos1.writeInt(i);

}

}

catch(IOException e1)

{

System.out.println(e1);

}

dos1.close();

fos1.close();

dos2.close();

fos2.close();

dis.close();

fis.close();

FileInputStream fis1=new FileInputStream(num1);

DataInputStream dis1=new DataInputStream(fis1);

System.out.println("\nOdd File : ");

try

{

for(int j=1;j<=5;j++)

{

i=dis1.readInt();

System.out.println(i +" ");

}

}

catch(IOException e2)

{

System.out.println(e2);

}

fis1.close();

dis1.close();

FileInputStream fis3=new FileInputStream(num2);

DataInputStream dis3=new DataInputStream(fis3);

System.out.println("\nEven File : ");

try

{

for(int k=1;k<=5;k++)

{

i=dis3.readInt();

System.out.println(i +" ");

}

}

catch(IOException e2)

{

System.out.println(e2);

}

fis3.close();

dis3.close();

}

}

1. Client server communication using Socket – TCP/IP

**Tcpserver.java**

import java.io.\*;

import java.net.\*;

class Tcpserver

{

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

{

String s1,ms1;

ServerSocket serversocket=new ServerSocket(5000);

while(true)

{

Socket clientsocket=serversocket.accept();

BufferedReader infromclient=new BufferedReader(new InputStreamReader(clientsocket.getInputStream()));

s1=infromclient.readLine();

ms1=s1.toUpperCase()+'\n';

DataOutputStream outtoclient=new DataOutputStream(clientsocket.getOutputStream());

outtoclient.writeBytes(ms1);

}

}

}

**Tcpclient.java**

import java.io.\*;

import java.net.\*;

class Tcpclient

{

public static void main(String[] args )throws IOException

{

String s,ms;

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

System.out.println("Hai");

Socket clientsocket=new Socket("127.0.0.1",5000);

DataOutputStream outtoserver=new DataOutputStream(clientsocket.getOutputStream());

System.out.println("\nEnter a string");

s=infromuser.readLine();

outtoserver.writeBytes(s+ '\n');

BufferedReader infromserver= new BufferedReader(new InputStreamReader(clientsocket.getInputStream()));

ms=infromserver.readLine();

System.out.println("From server :" +ms);

clientsocket.close();

}

}