Q1

package CO6Q1;

import java.io.File;

public class CO6Q1 {

static void RecursivePrint(File[] arr,int index,int level)

{

if(index == arr.length)

return;

for (int i = 0; i < level; i++)

System.out.print("\t");

if(arr[index].isFile())

System.out.println(arr[index].getName());

else if(arr[index].isDirectory())

{

System.out.println("[" + arr[index].getName() + "]");

RecursivePrint(arr[index].listFiles(), 0, level + 1);

}

RecursivePrint(arr,++index, level);

}

public static void main(String[] args)

{

String maindirpath = "/home/rony/Desktop/mca/2NDSEm";

File maindir = new File(maindirpath);

if(maindir.exists() && maindir.isDirectory())

{

File arr[] = maindir.listFiles();

System.out.println("-----------------------------------------");

System.out.println("Files from main directory : " + maindir);

System.out.println("-------------------------------------------");

RecursivePrint(arr,0,0);

}

}

}

Q2

package CO6Q2;

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("co6q2.txt",true);

writer.write("new file is created");

writer.close();

FileReader reader = new FileReader("co6q2.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-----");

}

}

}

Q3

package CO6Q3;

//Write a program to copy one file to another.

import java.io.FileInputStream;

import java.io.FileOutputStream;

import java.io.IOException;

public class CO6Q3 {

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

// TODO Auto-generated method stub

FileInputStream fileinput = new FileInputStream("1.txt");

FileOutputStream fileoutput = new FileOutputStream("2.txt");

int i;

while ((i = fileinput.read()) != -1) {

fileoutput.write(i);

}

System.out.println("Successfully copied one file to another");

fileinput.close();

fileoutput.close();

}

}

Q4

package CO6Q4;

import java.io.FileInputStream;

import java.io.FileOutputStream;

import java.io.IOException;

public class CO6Q4

{

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

// TODO Auto-generated method stub

FileInputStream source = new FileInputStream ("source.txt");

FileOutputStream destination\_odd = new FileOutputStream ("odd.txt");

FileOutputStream destination\_even = new FileOutputStream ("even.txt");

int i;

while((i = source.read()) != -1){

if(i%2==0) {

destination\_even.write(i);

}

else {

destination\_odd.write(i);

}

}

System.out.println("copied");

source.close();

destination\_even.close();

destination\_odd.close();

}

}

Experiment : 02

Aim :

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

CO 6:

Develop applications using files and networking concepts

Procedure

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("co6q2.txt",true);

writer.write("new file is created");

writer.close();

FileReader reader = new FileReader("co6q2.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) {

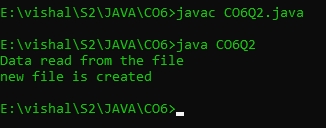
System.out.println("-----Error-----");

}

}

}

Output



Experiment : 05

Aim :

Client server communication using Socket – TCP/IP

CO 6:

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Procedure

newclientCO6\_Q5

import java.io.\*;

import java.net.\*;

public class newclientCO6\_Q5

{

public static void main(String[] args)

{

try

{

Socket newsocket=new Socket("localhost",7011);

DataOutputStream dataoutnew= new DataOutputStream(newsocket.getOutputStream());

dataoutnew.writeUTF("calling client....");

dataoutnew.flush();

dataoutnew.close();

newsocket.close();

}

catch(Exception e)

{

System.out.println(e);

}

}

}

newserverCO6\_Q5

import java.io.\*;

import java.net.\*;

public class newserverCO6\_Q5

{

public static void main(String [] args)

{

try

{

ServerSocket newserversocket= new ServerSocket(7011);

Socket newsocket= newserversocket.accept();

DataInputStream datainputnew= new DataInputStream(newsocket.getInputStream());

String str=(String) datainputnew.readUTF();

System.out.println("message="+str);

newserversocket.close();

}

catch(Exception e)

{

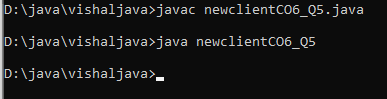
System.out.println(e);

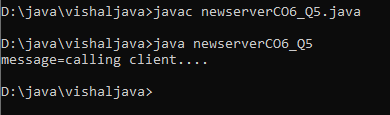
}

}

}

Output





Experiment : 06

Aim :

Client Server communication using DatagramSocket - UDP

CO 6:

Develop applications using files and networking concepts

Procedure

CO6Q6\_Myclient.java

import java.io.\*;

import java.net.\*;

public class CO6Q6\_Myclient {

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

DatagramSocket client= new DatagramSocket();

InetAddress add=InetAddress.getByName("localhost");

String str ="\*\* Message to Server from Client \*\*";

byte[] bufBytes = str.getBytes();

DatagramPacket datagramPacket=new DatagramPacket(bufBytes,bufBytes.length,add,9000);

client.send(datagramPacket);

client.close();}

}

CO6Q6\_Myserver.java

import java.io.\*;

import java.net.\*;

public class CO6Q6\_Myserver {

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

DatagramSocket server=new DatagramSocket(9000);

byte[] buf=new byte[256];

DatagramPacket packet=new DatagramPacket(buf,buf.length);

server.receive(packet);

String response =new String(packet.getData());

System.out.println(" Server : "+response);

server.close();

}

}

Output

