Mid2 java113

في الفايل لازم تكونو فاهمين كل نوع كيف يفتح سواء للقراءة او الكتابة مثلا

To open txt file to read from it we use :

1. PrintWriter file = new PrintWriter (“file.txt”) ;
2. Scanner file = new Scanner (“file.txt”) ;
3. Scanner file = new Scanner (new File(“file.ser”) ;
4. Scanner file = new Scanner (new File(“file.txt”) ;

(4 )

----------------------------------------------------------------------------------------------------

Q2

Suppose you have a file "employee.ser" that contains employee information . the employee can be either a full time employee (ft) or a part time employee (pt) . write a program that reads the information stored in " employee.ser" then stores the records in tow text files " ft.txt" and "pt.txt" depending on whether the record is for a part time or a full time employee

Class Employee

{

String name ; int id ;

// constructor and mithods + toString method ;

Class ft extends Employee

{ String type ;

// constructor and mithods + toString method ;

}

Class pt extends Employee

{ int hours ;

// constructor and mithods + toString method ;

}

Answer :

// declare and open the needed files

objectInputStream inFile = new objectInputStream (new FileInputStream( ("employee.ser" );

PrintWriter outFile1 = new PrintWriter(new FileOutputStream ( new File ("ft.txt"))) ;

PrintWriter outFile2 = new PrintWriter (new FileOutputStream ( new File ("pt.txt") ));

Employee s ;

Try{

While(true){ // loop

//read an employee from file and store it in s

S = (Employee) inFile.readObject() ;

If(s instanceOf ft) // write in the appropriate file

outFile1. println ( s.getId () + " " + s.getName() + " " + s.type ) ;

else

outFile2. println ( s.getId ()+ " " + s.getName()+ " " + s.Hours ) ;

}

}

Catch(Exception e) أو IOException

{

Return ;

}

// close the file

outFile1.close() ;

outFile2.close() ;

inFile.close() ;

**ملاحظة** فعليا في الكود السابق نحن نحتاج لعدة

Exception هي ClassNotFoundException ,

و IOException

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*---------------------------------------*

1. Write statements to do the following:
   1. Create a text file t and write in it the integers from 1 to 100.

PrintWriter File = new PrintWriter(new FileOutputStream ( new File ("t.txt"))) ;

For(int I = 1 ; I <= 100 ; I++ )

File.println( I ) ; // each number in line

File.close () ;

* 1. Create an Object file o to write

ObjectOutputStream o = new ObjectOutputStream (new FileOutputStream(“file.ser”) ) ;

* 1. Write an unchecked exception class that puts the String “exam!” in the exception object.

Public class exp extends RunTimeExeption

{

Public exp()

{

Super (“exam!”) ;

}

}

--------------------------

السؤال التالي مهم

**a.**

The following is a program that creates a file and writes objects, of different types, in it. The object is composed of the name and phone number (without the area code) of a person. The type of the object depends on the area code of the number, where area code = first two digits of the number.

Examples:

Mona Ahmed lives in dammam her phone number: 038324662

Ahlam Hassan lives in Riyadh her phone number: 014919865

Jory Adbullah lives in Abha her phone number is:072265101

**Mona name and phone number (without the area code) will be stored, in the file, as an object of the type Dammam.**

Ahlam name and phone number (without the area code) will be stored**,** in the file, as an object of the type Riyadh.

Jory name and phone number (without the area code) will be stored, in the file,as an object of the type Abha.

The three classes **Dammam**, **Riyadh** and **Abha** are subclasses of the super class **Area**, which is a serialized class.

**Complete the missing statements**:

//write the statement to instantiate the output file

ObjectOutputStream outfile = new ObjectOutputStream( new

FileOutputStream(new file(“info.dat”)) );

Area ref; //Area is the super class

for(int i=0;i<=10;i++) //this loop will read the data of 10 persons

{

Read\_person\_info(name , number); //(given)

// extract\_Area\_Code will extract the area code from the number and store it in AreaCode

int AreaCode = extract\_Area\_Code(number); //(given)

//Complete the if else statement that will create the appropriate object depending on the AreaCode value.

if( AreaCode == 01 )

ref = new Riyadh(name , number ) ;

else

if( AreaCode == 03 )

ref = new Dammam(name , number) ;

else

ref = new Abha(name , number) ;

//write **one** statement that will write the object into the output file

Outfile.writeObject(ref) ;

}…..}

**b.**

Complete the piece of code that will read the name and phone number of the 10 persons from the above file. Now the above file is an input file. After reading the object, the code should add the area code to the beginning of the phone number and then write the name and the phone number (with the area code) to a text file.

//complete the files instantiation;

ObjectInputStream inputfile = new ObjectInputStream ( new

new FileInputStream( new File("info.dat") )) ;

PrintWriter outputfile = new PrintWriter(new FileOutputStream ( new File ("info2.txt"))) ;

Area ref; //Area is the super class

for(int i=0;i<=10;i++)

{

//Write **one** statement that will read person info. from the file

Ref = (Area) inputfile.readObject() ;

//the statement that will add the area code to the number

If ( ref instanceOf Riyadh)

Ref.number = “01” + ref.number ;

else

If ( ref instanceOf Dammam)

Ref.number = “03” + ref.number ;

else

Ref.number = “07” + ref.number ;

//write **one** statement that will write the name and the phone number to the text file

Outputfile.println( ref.name + " " + ref.number ) ;

} //end of for loop

لنفرض انها وضعت فراغات ل exception سيكون من المفروض ان يكون هناك

Catch (ClassNotFoundException e )

And

Catch(IOException e )

أو السوبر فقط

Catch(Exception e )

// end question

=====================================================================

Therecords of the computer and electrical engineer students are stored in the file “ComandElec.ser” as **objects**. The record of a computer engineer student is stored as a **computer object** and the record of an electrical engineer student is stored as **electrical object**. The computer class and electrical class are sub classes of the super class student.

The bellow code segment should read the record of each student, sequentially, from the file “ComandElec.ser“. Then write the id (only) of the student, sequentially, into the txt file “comp.txt”, if the student is a computer engineer student. If the student is an electrical engineer student the id should be written into the txt file “elec.txt”. Assume that the id is a public data member of the class student.

{……………..

student stu; //student is a super class of the computer class and electrical class.

**//complete the declarations and instantiations of the three files.**

objectInputStream input = new objectInputStream(new FileInputStream(“ComandElec.ser”));

PrintWriter compfile = new PrintWriter(new FileOutputStream ( new File ("compt.txt"))) ;

PrintWriter elecfile = new PrintWriter(new FileOutputStream ( new File ("elec.txt"))) ;

try{

while (true){

//complete the statement that will read a student record from the input file

stu = (student ) input.readObject() ;

if (stu instanceOf computer) //complete the if statement

// write the statement that will write the id of the computer engineer student into the computer output file

Compfile.println( stu.id ) ;

Else

// write the statement that will write the id of the electrical engineer student into the electrical output file

Elecfile. format( stu.id ) ;

}}

catch (EOFEception e)

{return;}

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 mid2 - Q3

write statement to do the following:

a.Creat an Object file o to read clockobjects from an already created file on disk("clk.obj)

*ObjectInputStream O = new ObjectInPutStream (new FileInPutStream (“clk.obj”) ) ; // الملف مفتوح للقراءة منه*

 write a statement to read one object into the Clock variable c

*c = (clock) O.readObject() ;*

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لنفرض محتويا ملف 1 intFile1

كالتالي 2 4 5 66 9

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ولنفرض محتويات ملف infile2

كالتالي

6 5 9 99

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What is the output on screen and what is the contain of file newFile after this code execute

1 Scanner o = new Scanner(new File("intFile1.txt") ;   
 2 Scanner d = new Scanner(new File("intFile2.txt") ;   
 3 PrintWriter f = new PrintWriter(new FileOutputStream ( new File( newFile.txt"))) ;

4 Int x ;   
 5 Int y ;   
 6   
 7 for(int i = 1 ; i< 5 ; i++)  
 8 {  
 9 x = o.nextInt() ;   
10   
11 y = d.nextInt() ;   
12   
13   
14 if(i % 2 == 0 )  
15 System.out.println(y + " " ) ;   
16 else  
17 f.print( x + " " ) ;   
18   
19 }  
20   
21 o.close() ;   
22 f.close() ;   
23 d.close() ;

-----------------------

Output of Screen :

5 99

=========

Contains of file ( newFile ) :

2 5

==========================================================

Find the error :

Scanner file = new Scanner (“myfile”) ; // error ( new File )

=====================

File.println( 5 +" " + 88 ) ; /// error this file for reading not writing

**( لا حول ولا قوة الا بالله )**

كنز من كنوز الجنة ، و دواء من 99 داء ايسرها الهم

**(حسبي الله و نعم الوكيل لا إله الا هو عليه توكلت و هو رب العرش العظيم)**

سبع مرات في الصباح و المساء

كافية من هم الدنيا و الأخرة

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**(بسم الله ، توكلت على الله ، و لا حول و لا قوة الا بالله(**

مرة بعد كل خروج من البيت

قوة ثلاثية تحصينية من الشيطان و تجعل الشيطان يتنحى عنه ، و تحفظه من الشيطان ليوم كامل