**King Saud University**

**College of Computer and Information Sciences**

**Computer Science Department**

**CSC 113 First Semester 1432-1433**

**QUIZ # 2**

**Student Name: Serial Number:**

**Student Id: Section Number:**

**Question 1: [3 marks] What is the output of the following Java code?**

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| **Output**  **1 ½ pt**  **2 ½ pt**  **4 ½ pt**  **5 ½ pt**  **Exception in method f1() caught in main 1 pt** |

**public class Quiz2 {  
public static void f1() throws Exception {  
int a=100, b=200;  
System.out.println("1");  
try {  
 System.out.println("2");  
 f2(a,b);  
 System.out.println("3");  
}  
catch (Exception e) {   
 System.out.println("4");   
 throw e;   
}  
finally {   
 System.out.println("5");   
}  
  
System.out.println("6");  
}  
  
//-------------------------------------------------------  
public static void f2 (int x, int y) throws Exception {  
 if (x<y) throw new Exception();  
}  
//-------------------------------------------------------  
public static void main(String s[]) {   
try {  
 f1();  
}  
catch (Exception e){**

**System.out.println ("Exception in method f1()caught in main");}  
}}  
Question 2: [7 marks]** 10 students in a class deserve a bonus grade. You are given a text file **“Student\_Data.txt”**, where each line in the file includes the student’s first name, last name, current grade and bonus grade. For example the first line of the file will look like this:

**Sara Ali 73.5 2**

Assume you have the following class declaration

**public class Student implements Serializable {**

**public String firstName, lastName;**

**public double grade; }**

**Complete the program below such that it will do the following:**

1. Using a **Scanner** object, read the data of each student from the file **“Student\_Data.txt”**, and store it in an object of type **Student**. The **grade** of the Student that you will store in the object should be the new **grade** (after adding the bonus).
2. Store each **Student** object in a binary object file called **“Student\_File.obj”**.
3. Declare an array of 10 students called **studArray**. Read the data of the students from the object file **“Student\_File.obj”**, and store it in the array.

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| import java.util.\*; import java.io.\*;  class Student implements Serializable{ public String firstName, lastName; public double grade;  } public class Quiz2FileTest{ public static void main(String [] args) throws IOException, **¼ pt** ClassNotFoundException **½ pt** {  Scanner scanner= new Scanner (new File("Student\_Data.txt")); **½ pt**  File studFile= new File("Student\_File.obj"); **½ pt**  FileOutputStream outFileStream = new FileOutputStream (studFile);**½ pt**  ObjectOutputStream outObjStream= new ObjectOutputStream (outFileStream); **½ pt**    for (int i=0; i<10; i++){ **¼ pt**  Student obj= new Student(); **¼ pt**  obj.firstName= scanner.next(); **¼ pt**  obj.lastName= scanner.next(); **¼ pt**  obj.grade= scanner.nextDouble()+scanner.nextDouble(); **½ pt**  outObjStream.writeObject(obj); **½ pt** }  Student [] studArray= new Student[3];  FileInputStream inFileStream = new FileInputStream (studFile); **½ pt**  ObjectInputStream inObjStream= new ObjectInputStream (inFileStream); **½ pt**  for (int i=0; i<10; i++){ **¼ pt**  studArray[i]= (Student) inObjStream.readObject(); **1 pt**   }  }  } |