CT4: CSE 203 - Object-Oriented Programming I: Java (Sec C)

Time: 30 min **Mark: 20**

Name: **ID:**

1. Assume your OOP course teacher is storing the results of the 3 CTs in a txt file named **score.txt** as shown in the screenshot below. Write a java program that will read from the file and print the highest score of each Student. [12]

Sample score.txt file	Expected Output
21201001 19 18 16 21201002 15 16 18 21201004 18 5 10 21201005 10 12 20 21201010 5 15 10	21201001 19 21201002 18 21201004 18 21201005 20 21201010 15

2. Write a user defined exception named **LowAttendanceScoreException** which will take a double parameter named **cutOffAttendance** and set the Exception message to "You need a minimum attendance of **cutOffAttendance** to attend the Final Exam" where **cutOffAttendance** is the parameter passed to the constructor. [8]

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1. Assume the Ward Counsellor of your area are storing the information of the resident of that area in a txt file named **people.txt** as shown in the screenshot below. Each line of the file stores an id and his/her age. Write a java program that will read from the file and print only the people who are eligible to vote. Any person who is 18 years old or older is eligible to vote. [12]

Sample people.txt file	Expected Output
200401001 19 201201002 11 195206004 71 194006004 83 201811011 5	200401001 19 195206004 71 194006004 83

2. Complete the code below as per the comment in the code. [8]

```
import java.util.Scanner;

public class TestException {
	public static void main(String[] args) {
		Scanner scan = new Scanner(System.in);
		double data = scan.nextDouble();
		/** call the mathRoot and pass the data as the parameter.
		 * If no Exception is thrown from the call, print the result.
		 * Otherwise print the Exception message****/









	}

	public static int mathRoot(double num)
	{
	  if(num <= 0) {
	   //Throw an Exception with message saying "Can't find the square root
	   //of a negative number." Also update the method to fix any error



	  }
	  else {
		return Math.sqrt(num);
	  }

	}

}
```