

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

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 CT. [12]

Sample score.txt file	Expected Output
21201001 19 18 16	CT1 – 19
21201002 15 16 18	CT2 – 18
21201004 18 5 10	CT3 – 20
21201005 10 12 20	
21201010 5 15 10	

2. Write a user defined exception named **InvalidCTScoreException** which will take an integer parameter named **mark** and set the Exception message to “You need a minimum score of **mark** in CT to attend the final exam.” where **mark** is the parameter passed to the constructor. [8]

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1. Assume the Ward Commissioner 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 information about the people who are at age 70 and up. [12]

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

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);
        int data = scan.nextInt();
        /** call the mathFun 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 mathFun (int num)
    {
        if(num%2==0) {
            // Throw an Exception with a message saying "Not an even number."
            // Also update the method to fix any error

        }
        else {
            return num/2;
        }
    }
}
```