

## CT5: CSE 203 (Sec A) - Object-Oriented Programming I: Java

Time: 25 min

Mark: 20

Name:

ID:

1. Department of CSE, UAP is storing the Course information and section information in a txt file where each line contains the course code and then section info separated by space as shown in the sample file below. Write a java program to read the file (one line at a time), count the section print the course code followed by total sections in console as shown below. [15]

Sample input file (input.txt)	Expected output
CSE203 A B C D E	CSE203 5
CSE204 A1 A2 B1 B2 C1 C2 D1 E1	CSE204 8
EEE201 A B C	EEE201 3
CSE301 A B	CSE301 2
CSE303 A B	CSE303 2

2. What changes need to be made in **Player** class to serialize the objects of **Player** class but not the **rank** attribute? [5]

```
package ct5.secA;

public class Player {
    String name, game;
    int rank;
    public Player(String name, String game, int rank) {
        this.name = name;
        this.game = game;
        this.rank = rank;
    }
}
```

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3. Assume your OOP course teacher is storing the attendance of each student in a txt file where each line contains the id of the student followed by the P/A for attendance as shown in the sample file below. Write a java program to read the file (one line at a time), count the Presence and Absence and show the attendance info in Console in the format "ID Total\_Present Total\_Absent". Sample input file and output is shown below. [15]

Sample input file (input.txt)	Expected output
22101001 P P P P P P A A P P	22101001 8 2
22101002 A A P P P P P P P P	22101002 8 2
22201005 P A P P P P P P P P	22201005 9 1
22201007 A P P P A P P A P P	22201007 7 3
22201017 P P P P P P P P P P	22201017 10 0

4. What changes need to be made in **Doctor** class to serialize the objects of **Doctor** class but not the **age** attribute? [5]

```
package ct5.secA;

public class Doctor {
    String name, expertise;
    int age;
    public Doctor(String name, String expertise, int rank) {
        this.name = name;
        this.expertise = expertise;
        this.age = age;
    }
}
```