CT5: CSE 203 - Object-Oriented Programming I: Java

Time: 20 min   **Mark: 20**

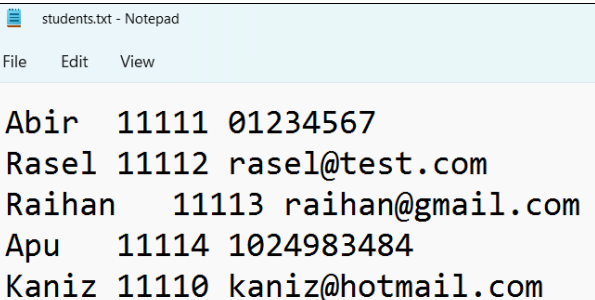**Name:**   **ID:**   **Sec:**

1. Assume the file "students.txt" contains information about students of CSE 203. The information that is stored for each student are his/her name, id and phone/email address. Write a java program which will read the file and only print the email addresses. [15]

   Hints: You can identify an email address with the special character that is always available in an email address.

Sample Input file	Expected output for the sample input
students.txt - Notepad File Edit View Abir 11111 01234567 Rasel 11112 rasel@test.com Raihan 11113 raihan@gmail.com Apu 11114 1024983484 Kaniz 11110 kaniz@hotmail.com	rasel@test.com raihan@gmail.com kaniz@hotmail.com

2. What are the errors in the code below? Fix the errors. [5]

```java
MyThread.java
1    package ct5;
2
3    public class MyThread implements Runnable{
4
5        @Override
6        public void run() {
7            for(int i=0; i<100; i++)
8                System.out.println(Thread.currentThread().getName()
9                        +":"+i);
10       }
11   }
12
```

```java
TestThread.java
1    package ct5;
2
3    public class TestThread {
4        public static void main(String[] a) {
5            Thread t1 = new MyThread();
6            Thread t2 = new MyThread();
7            t1.start();
8            t2.start();
9        }
10   }
11
```

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1. Assume the file "volunteersB.txt" contains the info about the ICPC volunteer "name id email address" as shown in the sample file below. Write a java program which will read the file and only print information about the volunteers who are from UAP. [15]

    Hints: UAP email ends with "@uap-bd.edu".

Sample Input file	Expected output for the sample input
volunteersB.txt - Notepad File Edit View Abir 11111 abir1@gmail.com Rasel 11112 rasel@uap-bd.edu Raihan 11113 raihan@gmail.com Apu 11114 11114@uap-bd.edu Kaniz 11110 kaniz@uap-bd.edu	Rasel 11112 rasel@uap-bd.edu Apu 11114 11114@uap-bd.edu Kaniz 11110 kaniz@uap-bd.edu

2. Carefully Observe the code below. How many threads are parallelly running? Explain your answer. [5]

```java
// TestThread.java
1 package ct5.other;
2
3 public class TestThread {
4     public static void main(String[] a) {
5         Thread t1 = new MyThread();
6         t1.setName("First Thread");
7         Thread t2 = new MyThread();
8         t2.setName("2nd Thread");
9         t1.run();
10        t2.run();
11     }
12 }
```

```java
// MyThread.java
1 package ct5.other;
2
3 public class MyThread extends Thread{
4
5     @Override
6     public void run() {
7         for(int i=0; i<10; i++)
8             System.out.println(Thread.currentThread().getName()
9                     +":"+i);
10     }
11 }
12
```