

1. Read an XML file “student.xml” containing list of student data in the following format, deserialize them into java objects, then serialize the unique <rollnumber, total marks(Phy+chem+math)> to a text file “student.txt” with appropriate exception handling.

deserialize them into java objects

```
D:\AU\java_session_morning\1>java Students  
Root element: students
```

```
Node Name :student  
Student roll number: 12  
Subject: Maths  
Marks: 85
```

```
Node Name :student  
Student roll number: 13  
Subject: physics  
Marks: 60
```

```
Node Name :student  
Student roll number: 15  
Subject: chemistry  
Marks: 79
```

```
Node Name :student  
Student roll number: 13  
Subject: Maths  
Marks: 85
```

```
Node Name :student  
Student roll number: 15  
Subject: physics  
Marks: 60
```

serialize the unique <rollnumber, total marks(Phy+chem+math)> to a text file “student.txt”

```

TERMINAL  PROBLEMS  4  OUTPUT  DEBUG CONSOLE

D:\AU\java_session_morning\1>java Students
Root element: students
12----total-marks->243
13----total-marks->230
15----total-marks->199

```

2. Secondly, deserialize the previously stored student.txt file with roll num and total marks. Then, serialize the top 5 students' roll numbers and total marks into excel or csv file in the following format.

deserialize the previously stored student.txt file

```

TERMINAL  PROBLEMS  3  OUTPUT  DEBUG CONSOLE

Student.class  Students.class  TotalStudents.class  o
Student.java   Students.java   TotalStudents.java   s

D:\AU\java_session_morning\1>javac TotalStudents.java
Note: TotalStudents.java uses unchecked or unsafe op
Note: Recompile with -Xlint:unchecked for details.

D:\AU\java_session_morning\1>java TotalStudents
12->243
13->230
15->199

```

serialize the top 5 students' roll numbers and total marks into excel or csv file

	Standard	Standard	Standard
1	Rank	Roll No	Total Marks(out of 300)
2	1	12	243
3	2	13	230
4	3	15	199

3. Write the implementation for singleton class.

```
public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application
```

```
D:\AU\java_session_morning\1>java Main
String from x is HELLO I AM A STRING PART OF SINGLETON CLASS
String from y is HELLO I AM A STRING PART OF SINGLETON CLASS
String from z is HELLO I AM A STRING PART OF SINGLETON CLASS
```

```
String from x is hello i am a string part of singleton class
String from y is hello i am a string part of singleton class
String from z is hello i am a string part of singleton class
```

```
D:\AU\java_session_morning\1>
```