JAVA FUNDAMENTALS ASSIGNMENT

- 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.
 - <students>
 - <student>
 - <roll>12</roll>
 - <marks>85</marks>
 - <subject>Maths</subject>
 - </student>
 - <student>
 - <roll>13</roll>
 - <marks>60</marks>
 - <subject>physics</subject>
 - </student>
 - <student>
 - <roll>15</roll>
 - <marks>79</marks>
 - <subject>chemistry</subject>
 - </student>
 - <student>
 - <roll>13</roll>
 - <marks>85</marks>
 - <subject>Maths</subject>
 - </student>
 - <student>
 - <roll>15</roll>
 - <marks>60</marks>
 - <subject>physics</subject>
 - </student>
 - <student>
 - <roll>12</roll>
 - <marks>79</marks>
 - <subject>chemistry</subject>
 - </student>
 - <student>
 - <rol>>13</rol>>
 - <marks>85</marks>
 - <subject>chemistry</subject>
 - </student>
 - <student>

<roll>15</roll>
<marks>60</marks>
<subject>maths</subject>
</student>
<student>
<roll>12</roll>
<marks>79</marks>
<subject>physics</subject>
</student>

</students>

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.

Rank	Roll Number	Total Marks(out of 300)
1	12	290
2	45	286
3	60	278
		So on

3. Write the implementation for singleton class.