Writing Part of Core Java Review Exam.

1. For the coding portion most of the part could have been done 2 or more ways as Java is big and provides many functionalities. There were some cases where I had to change some non-primitive data types to primitive because of Comparable/ Comparator interface. I also changed hashCode() and equals() for some variables as it was not complete. Some of the variable’s access was public so I changed it to private to achieve complete Encapsulation.
2. It will remove Student class’s object value till the last element. To remove items based on a field we can provide null values to the particular field by using student.setFieldName() = null. Enumeration and Iterator both are Interfaces in Java of Util package. Both are used to traverse through Collection. But there is one difference between them which is you cannot remove element by using Enumeration while you can remove elements by using Iterator. Though Enumeration allows to modify collection but iterator does not allows modification of collection through Collections class.
3. HotSpot: HotSpot is a JVM for desktop and server. It is distributed by Oracle Corp. It features improved performance via method like *Just-In-Time Compilation* and *Adaptive Compilation*. HotSpot provides A Java Classloader, A Java bytecode interpreter, Client and Server VM, Several Garbage Collectors and Run time libraries. It supports command line arguments for JVM tuning such as –xms –xss.[1]
4. To check the performance we can check into JVisual VM. It is a good source of performance and memory information. Instead of Hash table I will use Hash Map and rearrange them because Hash table takes more memory as it is thread safe and as per situation most of Hash Table are only 10% full. If uniqueness is not compulsory than we can use List.

References

1. <https://en.wikipedia.org/wiki/HotSpot>

*This all answers are prepared by Soham P. Joshi only. Referenced articles links has been attached.*