**Collection Framework**

1. **What is Collection in Java?**
2. **Need for the Collection framework.**
3. **Differentiate between Collection and collections in the context of Java.**
4. **What are the advantages of the Collection framework over array?**
5. **Difference between ArrayList and LinkedList.**
6. **Differentiate between ArrayList and Vector in java.**
7. **Differentiate between List and Set in Java.**
8. **Differentiate between Iterator and ListIterator in Java**
9. **Can you add a null element into a TreeSet or HashSet?why if yes or no?**
10. **What is a priority queue in Java?**
11. **What are some of the best practices while using Java Collections?**
12. **Differentiate between Set and Map in Java.**
13. **Differentiate between HashSet and HashMap.**
14. **What is the default size of the load factor in hashing based collection?**
15. **How can you make an ArrayList read-only in Java?**
16. **Why do we need synchronized ArrayList when we have Vectors (which are synchronized) in Java?**
17. **Explain fail-fast and fail-safe iterators. Differentiate between them.**
18. **What is the purpose of RandomAccess Interface? Name a collection type which implements this interface.**
19. **What is the use of Properties class in Java? What is the advantage of the Properties file?**
20. **Differentiate between HashMap and HashTable.**
21. **Why does HashMap allow null whereas HashTable does not allow null?**
22. **How can you synchronize an ArrayList in Java?**
23. **Differentiate between Comparable and Comparator in the context of Java.**
24. **Differentiate between HashMap and TreeMap in the context of Java.**
25. **Differentiate between HashSet and TreeSet. When would you prefer TreeSet to HashSet?**
26. **Write a program to shuffle all the elements of a collection in Java.**
27. **Write a program in java to get the collection view of the values present in a HashMap.**
28. **Write a program in java to join two arraylists into one arraylist.**
29. **What is the default number of segments in a Concurrent Hash Map?**
30. **What is the default capacity of Vector?**
31. **What is the difference between Queue and Stack?**
32. **What is internal working of HashMap?**
33. **What is internal working of HashSet?**
34. **What is IdentityHashMap & WeekHashMap?**
35. **Write a program in Java to display the contents of a HashTable using enumeration.**
36. **What is the need for overriding equals() method in Java?**
37. **How the Collection objects are sorted in Java?**
38. **How will you reverse a List?**
39. **What are the various methods provided by the Queue interface?**
40. **What do you understand by BlockingQueue?**
41. **What is the Stack class in Java and what are the various methods provided by it?**
42. **What is the HashSet class in Java and how does it store elements?**
43. **Why Map doesn’t extend the Collection Interface?**
44. **List down the different Collection views provided by the Map interface in the Java Collection framework?**
45. **What is the ConcurrentHashMap in Java and do you implement it?**
46. **Can you use any class as a Map key? & how?**
47. **Differentiate between Iterator and ListIterator.**
48. **What is the Java Comparator Interface?**
49. **Write a program to sort Employees by its salary in descending order.**
50. **How to Iterate map object.**