**Programming Questions in Core Java:**

1. Write a Java Program to reverse a string without using String inbuilt function.

2. Write a Java Program to swap two numbers using the third variable.

3. Write a Java Program to swap two numbers without using the third variable

4. Write a Java Program to count the number of words in a string

5. Write a Java Program to find whether a number is prime or not.

6. Write a Java Program to find whether a string or number is palindrome or not

7. Write a Java Program for Fibonacci series

8. Write a Java Program to find the duplicate characters in a string.

9. Write a Java Program to find the second highest number in an array.

10. Write a Java Program to check Armstrong number.

11. Quick sort

12. Insertion sort

13. Bubble sort

14. Linked list

15. Double linked list

16. Reverse a linked list

17. Merge sort

18. Write a program to synchronize ArrayList, HashSet and HashMap in java

19. Create a custom immutable class

20. Selection sort

21. Given an element, how do you find out whether that element exist in a Linked List or not. If it exist retrieve the position of that element?

22. Write a Java program to traverse the elements of a Linked List in reverse direction?

23. How do you join an ArrayList at the end of a Linked List?

24. Write a Java program which implements Linked List as a Queue (FIFO)?

25. How do you insert an element at the head and tail of a Linked List?

26. How do you add an element or collection of elements at a specific position of a Linked List?

27. How do you remove the elements of a Linked List from both the ends?

28. How do you replace an element at a specific position of a Linked List with the given element?

29. Write a program to create custom exception

30. How to find the missing number in given integer array of 1 to 100?

31. How to find the duplicate number on a given integer array?

32. How to find the largest and smallest number in an unsorted integer array?

33. How to remove duplicates from an array?

34. How to find the middle element of a singly linked list in one pass?

35. How to reverse a singly linked list without recursion?

36. How to find the 3rd node from the end in a singly linked list?

37. Write a program to sort List of Employee objects based in employee id

38. Write a program to implement hashcode and equals method

39. Write a program to create deadlock between two threads

40. Write a program to implement singleton class

41. Write a program to find perfect number or not

42. Write a program for linear search

43. Write a program for binary search

44. Java Program to count the total number of characters in a string

45. Write a program serialize and deserialize object

46. Producer and Consumer problem

47. Create a custom ArrayList class

48. Create a custom HashMap class

49. Create a Custom HashSet Class

50. Create a program to create multiple threads using executors.