Question Bank (Java Programming)

1. Input a float number and another float number, then print which one is larger — or if they are equal.
2. Accept a number from the user and display whether it is even or odd using the ternary (`? :`) operator.
3. Write a program that demonstrates arithmetic operations (`+`, `-`, `*`, `/`, `%`) using any two numbers entered by the user.
4. Read a character from the user and identify if it's a vowel or consonant.
5. Accept any number and determine whether it is divisible by 7.
6. Show how to use assignment operators like `+=`, `-=`, `*=`, and `/=` on declared variables and display the result after each operation.
7. Compare two integers taken from the user using relational operators (like `==`, `<`, `>`, `!=`) and print the outcomes.
8. Accept the name, age and address from the user and generate a personalized welcome message.
9. Write a program to accept three numbers and print the maximum among them.
10. Create a Java program that prints "Positive", "Negative", or "Zero" depending on the input number.
11. Read two integers from the user and demonstrate bitwise operators like AND, OR, XOR, and NOT on them.
12. Accept a number from the user and check if it is a **multiple of 9** using `%`.
13. Using `if-else`, write a program that checks whether a student has passed based on their score (passing score = 35).
14. Define one variable of each type — `int`, `float`, `char`, `boolean`, `String` — assign values, and print them.
15. Use a `switch` statement to display the day of the week based on a number from 1 to 7.
16. Accept an integer from the user and check whether it is greater than zero using an `if` condition.
17. Take age input from the user and print whether the person can vote (must be 18 or older).
18. Build a program that evaluates logical expressions using `&&`, `||`, and `!` on a few sample conditions and prints results.
19. Demonstrate how to swap the values of two integers using a temporary variable.
20. Describe the purpose of the `Scanner` class. Then write a program to input and display a person's full name and age.
21. Create a Java program that accepts two integer values from the user and displays their total, difference, and product.
22. Write a for loop that prints all numbers from 1 to 10 except for 5, which should be skipped using the continue keyword.
23. Develop a program to accept a number from the user and display its multiplication table up to 10.
24. Write a program to count down from 10 to 1 using a while loop.
25. Accept five integer values from the user, store them in an array, and print all the elements.
26. Use a for loop to calculate the factorial of a number provided by the user.
27. Write a program that uses a while loop to print only odd numbers from 1 to 20.
28. Display numbers between 1 and 100 that are divisible by 2 using a for loop.
29. Print all values from 10 down to 1, but skip the number 7 using the continue statement.

30. Use a for loop to display numbers from 1 to 20, but skip all multiples of 3 using continue.
31. Accept a number from the user and check its factorial using a for loop.
32. Create and initialize a 3×3 matrix of integers, then print all its values using nested loops.
33. Write a do-while loop that prints numbers from 1 to 10 but skips the number 5 using continue.
34. Display all numbers between 10 and 20, but skip numbers between 15 and 18 using the continue statement.
35. Display numbers from 1 to 30 using a loop, but stop execution if a number divisible by 11 is encountered. Use break.
36. Accept two integers and display both the result of their division and remainder.
37. Initialize a 1D array with 6 integers and find the largest value among them.
38. Write a Java program that prints numbers from 1 to 10 using a for loop.
39. Declare an integer array of size 4, assign values to each index, and print them one by one.
40. Use a while loop to print even numbers between 2 and 20.
41. Build a Java program that uses a do-while loop to print values from 5 to 1 in reverse order.
42. Create a program that accepts 7 numbers into an array and prints only those that are greater than 50.
43. Write a program that prints numbers from 1 to 10 but stops immediately if it encounters 7. Use the break keyword.
44. Take any number from the user and check whether it lies within the given range (between 100 and 199 inclusive).
45. Accept the marks for three different subjects. Display "Grade A" only if the average is at least 90 **and** each subject has at least 80 marks.
46. Write a Java program to determine the square and cube of a given number.
47. Create a program to input 10 integers and count how many of them are even and how many are odd.
48. Write a program to find if a number is prime or not.
49. Create a Java program that accepts an email address as input and extracts the domain name (e.g., abc@college.edu → output: college.edu).
50. Write a program that accepts a sentence and prints both its uppercase and lowercase forms on separate lines.
51. Read a string from the user and display the character at the first and last positions using the charAt() method.
52. Accept two strings from the user and compare them using compareTo(). Print "Match" if they are equal, otherwise print "Different".
53. Accept any sentence from the user and remove the unnecessary spaces from the start and end using the trim() method.
54. Ask the user to input two strings. Use the equals() method to check if they are the same. Display the result accordingly.
55. Write a program that finds the position (index) of the first occurrence of a character entered by the user within a string.
56. Accept a paragraph from the user and replace every instance of the character 'e' with '*'.
57. Accept a string and a character. Write a program to check whether that character appears in the string or not.
58. Accept a string from the user and display the total number of characters in it.

59. Accept a sentence from the user and count the number of spaces in it.
60. Input a string and display whether it starts with the letter 'S' or not.
61. Input a string from the user and print "Contains digits" if it has any numbers in it, otherwise print "Only letters".
62. Take a sentence from the user and reverse the string manually using a loop (no built-in reverse method).
63. Write a program that asks the user to enter a word and prints "Palindrome" if the word reads the same forward and backward.