

B B C

BOUND BY CODE

# 100



# JAVA PROBLEMS FOR BEGINNERS



1. Write a program to print 'Hello, World!'
2. Write a program to print your name.
3. Write a program to add two numbers.
4. Write a program to subtract two numbers.
5. Write a program to multiply two numbers.
6. Write a program to divide two numbers.
7. Write a program to find the remainder of two numbers.
8. Write a program to swap two numbers using a third variable.
9. Write a program to swap two numbers without using a third variable.
10. Write a program to check if a number is even or odd.
11. Write a program to find the largest of two numbers.
12. Write a program to find the largest of three numbers.
13. Write a program to check if a number is positive, negative, or zero.
14. Write a program to check if a year is a leap year.
15. Write a program to print the multiplication table of a given number.
16. Write a program to print all even numbers from 1 to 100.
17. Write a program to print all odd numbers from 1 to 100.
18. Write a program to find the factorial of a number.
19. Write a program to reverse a number.
20. Write a program to check if a number is a palindrome.
21. Write a program to check if a number is prime.
22. Write a program to find the sum of digits of a number.
23. Write a program to find the GCD of two numbers.
24. Write a program to find the LCM of two numbers.
25. Write a program to print Fibonacci series up to n terms.
26. Write a program to print ASCII value of a character.
27. Write a program to convert Celsius to Fahrenheit.

28. Write a program to convert Fahrenheit to Celsius.
29. Write a program to calculate the area of a circle.
30. Write a program to calculate the area of a rectangle.
31. Write a program to calculate the area of a triangle.
32. Write a program to calculate the simple interest.
33. Write a program to calculate the compound interest.
34. Write a program to check if a character is vowel or consonant.
35. Write a program to count the number of vowels in a string.
36. Write a program to count the number of words in a sentence.
37. Write a program to reverse a string.
38. Write a program to check if a string is palindrome.
39. Write a program to find the length of a string without using length().
40. Write a program to copy one string to another string.
41. Write a program to concatenate two strings.
42. Write a program to compare two strings.
43. Write a program to find the maximum element in an array.
44. Write a program to find the minimum element in an array.
45. Write a program to calculate the sum of all elements in an array.
46. Write a program to calculate the average of all elements in an array.
47. Write a program to search an element in an array.
48. Write a program to sort an array in ascending order.
49. Write a program to sort an array in descending order.
50. Write a program to remove duplicates from an array.
51. Write a program to merge two arrays.
52. Write a program to find the second largest element in an array.
53. Write a program to count the frequency of elements in an array.
54. Write a program to find common elements in two arrays.

55. Write a program to find the transpose of a matrix.
56. Write a program to add two matrices.
57. Write a program to multiply two matrices.
58. Write a program to find the trace of a matrix.
59. Write a program to check if a matrix is symmetric.
60. Write a program to implement linear search.
61. Write a program to implement binary search.
62. Write a program to implement bubble sort.
63. Write a program to implement selection sort.
64. Write a program to implement insertion sort.
65. Write a program to print patterns of stars (triangle).
66. Write a program to print pyramid pattern of stars.
67. Write a program to print inverted pyramid pattern of stars.
68. Write a program to implement a calculator using switch case.
69. Write a program to find the power of a number using loop.
70. Write a program to find the power of a number using recursion.
71. Write a program to calculate the sum of natural numbers using recursion.
72. Write a program to find the GCD using recursion.
73. Write a program to find the factorial using recursion.
74. Write a program to find nth Fibonacci number using recursion.
75. Write a program to implement a basic class with constructor.
76. Write a program to demonstrate method overloading.
77. Write a program to demonstrate method overriding.
78. Write a program to implement inheritance.
79. Write a program to implement multilevel inheritance.
80. Write a program to implement multiple inheritance using interfaces.
81. Write a program to demonstrate abstract class.

82. Write a program to demonstrate interface.
83. Write a program to demonstrate encapsulation.
84. Write a program to demonstrate polymorphism.
85. Write a program to create and use packages.
86. Write a program to demonstrate exception handling using try-catch.
87. Write a program to throw and catch custom exception.
88. Write a program to read and write a file.
89. Write a program to count the number of characters in a file.
90. Write a program to demonstrate threads.
91. Write a program to implement synchronization in threads.
92. Write a program to demonstrate collection - ArrayList.
93. Write a program to demonstrate collection - HashMap.
94. Write a program to demonstrate collection - HashSet.
95. Write a program to sort elements in ArrayList.
96. Write a program to demonstrate lambda expression.
97. Write a program to implement comparator interface.
98. Write a program to implement comparable interface.
99. Write a program to demonstrate JDBC connection (pseudo code).
100. Write a program to connect to MySQL database using JDBC.
101. Write a program to create GUI using Swing.
102. Write a program to handle button click event in Swing.
103. Write a program to create a basic calculator using Swing.