**Assignment-1: Learning Simple JAVA Programs**  
Objective: Understand and implement basic Java programming concepts by completing the following tasks.

Problems:

1. Write a program to print your name.
2. Write a program to read the price of an item in the decimal form (like 75.95) and print the output in paise (like 7595 paise).
3. Write a program to calculate the area and perimeter of a rectangle.
4. Write a program to convert the given temperature in Fahrenheit to Celsius using the conversion formula: C = (F-32)/1.8.
5. Write a program to determine the sum of the following series for a given value of n: (1 + 1/2 + 1/3 + ... + 1/n). Print the result up to two decimal places.
6. Write a program to take your first and last name as command-line arguments and convert them into a single string.
7. Write a program to find the product, sum of digits, and reverse of a given integer number (take input using command-line arguments).
8. Write a program to find the factorial of a given integer number using recursion (take input using command-line arguments).
9. Write a program to display the Fibonacci series up to the n-th term using recursion.
10. Write a program to calculate the sum of the series (1+x+x²+x³+x⁴+ ... up to n-th terms).
11. Write a program to calculate simple interest while taking principal (p), time in years (n), and rate of interest (r) as command-line inputs.
12. Write a program to find the real roots of the quadratic equation ax² + bx + c = 0 where a, b, and c are constants.
13. Write a program to print all prime numbers within a given range.
14. Write a program to print all Armstrong numbers within a given range.
15. Write a program to calculate the GCD and LCM of two numbers (implement 2 versions).
16. Write a program to find the sum and average of several integers stored in an array using an enhanced-for loop.
17. Write a program to implement Linear Search, taking values via command-line arguments.
18. Write a program to implement Binary Search.
19. Write a program to implement Bubble Sort, Selection Sort, and Insertion Sort in a single menu-driven program.
20. Write a program to count the number of words in a string.
21. Write a program to check whether a string is a palindrome (make this case-insensitive).
22. Write a program to perform addition, subtraction, and multiplication of two matrices using a menu-driven program.