**450+ Programs**

# **1. Simple Questions**

1. Print Hello World
2. Add two numbers/binary numbers/characters
3. Calculate compound interest
4. Calculate power of a number
5. Swap two numbers
6. Area and Circumference of a Circle
7. Print Ascii Value of the Character
8. Simple Interest
9. The Display Size of the Different Data Type
10. [Factorial of a Given Number](https://cstutorialpoint.com/c-program-to-find-factorial-of-a-number/)
11. Read Integer (N) and Print the First Three Powers (N^1, N^2, N^3)
12. [Area of a Circle](https://cstutorialpoint.com/c-program-to-find-area-of-circle/)
13. LCM of Two Numbers
14. GCD of Two Numbers
15. How to Print the Message " HELLO JAVA " In Java
16. How to Variable Declaration and Initialization in Java
17. How to Concatenate in Java
18. How to Print Different Values in Java
19. Java Programs To Find Area And Circumference Of Circle
20. How to Print ASCII Value in Java Programs
21. Java Programs To Find Area Of Triangle
22. Java Programs to Convert a Person's Name in Abbreviated
23. Java Programs For Calculate A Simple Interest
24. Write a Program to Calculate the Gross Salary of an Employee in Java
25. Java Programs For Converting Temperature Celsius Into Fahrenheit
26. Java Program to Find Size of Different Data Types
27. Java Program to Find Square and Cube of a Number (N^1, N^2, N^3)
28. Fibonacci Series in Java
29. Prime Number Program in Java
30. Palindrome Program in Java
31. Factorial Program in Java
32. Armstrong Number in Java
33. How to Generate Random Numbers in Java
34. How to Print Patterns in Java
35. How to Compare Two Objects in Java
36. How to Create Objects in Java
37. Calculate area of rectangle
38. Calculate area and circumference of circle using multiple classes

# **2. If/Else Statement**

1. The Greatest Number Among the Given Three Number
2. The Number Is Positive or Negative
3. Character Is Vowel or Consonant
4. A Character Is an Alphabet or Not
5. Uppercase, Lowercase, Special Character, or Digit
6. The Number Is Positive or Negative
7. The Number Is Even or Odd
8. Greatest of Two Numbers
9. Greatest Among Three Numbers
10. Leap Year
11. The Date Is Correct or Not
12. Voting Eligibility Checker
13. Find the maximum between two numbers.
14. Find the maximum between the three numbers.
15. Check whether a number is negative, positive or zero.
16. Check whether a number is divisible by 5 and 11 or not.
17. Find whether a number is even or odd.
18. Check whether a year is a leap year or not.
19. Check whether a character is an alphabet or not.
20. Input any alphabet and check whether it is vowel or consonant.
21. Input any character and check whether it is the alphabet, digit or special character.
22. Check whether a character is an uppercase or lowercase alphabet.
23. Input week number and print weekday.
24. Input month number and print number of days in that month.
25. Count the total number of notes in a given amount.
26. Input angles of a triangle and check whether the triangle is valid or not.
27. Input all sides of a triangle and check whether the triangle is valid or not.
28. Check whether the triangle is an equilateral, isosceles or scalene triangle.
29. Find all roots of a quadratic equation.
30. Calculate profit or loss.
31. Java Program To Check Character Is Uppercase, Lowercase Alphabet Or A Digit Or A Special Symbol
32. Write a Java Program to Find the Largest of Three Numbers Using Nested IF
33. Employee Salary Program in Java
34. Java Program to Find Number Is Positive or Negative
35. Java Program To Find Character Is Vowel Or Not

# 

# **3. Loops** Write programs to:

1. Display prime numbers between 1 and 100 or 1 and n
2. Swap two variables without using the third variable
3. Find the factorial of a number
4. Check if a number is palindrome or not
5. Print Fibonacci series till n
6. Add two integer variables in 5 different ways using functions and control statement
7. Find square root of a number without sqrt method
8. Check Armstrong number
9. Calculate grades of students using their marks
10. Use switch case, recursion, print patterns, etc.

## **1. While Loop or While-Do Loop Questions**

1. Reverse A given Number
2. Find Number Is Armstrong Or Not
3. Calculate Sum of Natural Numbers
4. Display Fibonacci Series
5. Find LCM of two Numbers
6. Reverse a Number
7. Check Whether a Number is A Palindrome or Not
8. Count Number of Digits of an Integer
9. Find A Generic Root Of Number
10. Print A Calendar Taking Input From User Using Loop
11. Number Is Divisible By 11 Using (VEDIC MATH)
12. Denomination of an Amount

## **2. Do-While Loop Questions**

Solve the above program using Do-While Loop

## **3. For Loop Questions**

1. Generate IP (Internet Protocol) Addresses Using
2. Print Multiplication Table Using
3. Sort A Float Array In Ascending And Descending Order Using
4. Find GCD of two Numbers Using
5. Denomination Program in Java | 2000, 500, 100, 50, 20, 10, 5, 2, 1
6. Factorial Program in Java Using For Loop
7. Java Program For Calculate Percentage Of 5 Subjects

# **4. Switch Case**

1. Temperature Conversion Celsius To Fahrenheit And Vice Versa
2. Find The Day
3. Calculator
4. Find A Grade Of Given Marks or (Find a Grade of Given Marks Using Switch Case)
5. Find Radius, Circumference and Volume of Cylinder
6. Remove All Vowels From A String
7. Print day of week name using switch case.
8. Print total number of days in a month using switch case.
9. Check whether an alphabet is a vowel or consonant using a switch case.
10. Find the maximum between two numbers using the switch case.
11. Check whether a number is even or odd using a switch case.
12. Check whether a number is positive, negative or zero using a switch case.
13. Find roots of a quadratic equation using switch case.
14. Create a Simple Calculator using a switch case.

**Array Java Programs for Practice**

Write Java programs to:

1. Calculate average of numbers using Array
2. Reverse an array
3. Sort an array in ascending order
4. Convert char Array to String
5. Add two Matrix using Multi-dimensional Arrays
6. Sort strings in alphabetical order
7. Find out the highest and second highest numbers in an array
8. Concatenate two arrays
9. Java Program to copy all elements of one array into another array
10. Java Program to find the frequency of each element in the array
11. Java Program to left rotate the elements of an array
12. Java Program to print the duplicate elements of an array
13. Java Program to print the elements of an array
14. Java Program to print the elements of an array in reverse order
15. Java Program to print the elements of an array present on an even position
16. Java Program to print the elements of an array present in an odd position
17. Java Program to print the largest element in an array
18. Java Program to print the smallest element in an array
19. Java Program to print the number of elements present in an array
20. Java Program to print the sum of all the items of the array
21. Java Program to right rotate the elements of an array
22. Java Program to sort the elements of an array in ascending order
23. Java Program to sort the elements of an array in descending order
24. Java Program to Find 3rd Largest Number in an array
25. Java Program to Find 2nd Largest Number in an array
26. Java Program to Find the Largest Number in an array
27. Java to Program Find 2nd Smallest Number in an array
28. Java Program to Find the Smallest Number in an array
29. Java Program to Remove Duplicate Elements in an array
30. Java Program to Print Odd and Even Numbers from an array
31. How to Sort an Array in Java

# **5. Array Questions**

1. Insert An Element Desired or Specific Position In An Array
2. Remove Duplicates Items In An Array
3. Delete Element From Array At Desired Or Specific Position
4. Print “I AM IDIOT” Instead Of Your Name Using Array
5. Check String Is Palindrome Or Not Using For Loop
6. Convert All Input String Simultaneously Into Asterisk ( \* )
7. Read and print elements of the array. – using recursion.
8. Print all negative elements in an array.
9. Sum of all array elements. – using recursion.
10. Find a maximum and minimum element in an array. – using recursion.
11. Get the second largest element in an array.
12. Count the total number of even and odd elements in an array.
13. Count the total number of negative elements in an array.
14. Copy all elements from an array to another array.
15. Insert an element in an array.
16. Delete an element from an array at the specified position.
17. Count frequency of each element in an array.
18. Print all unique elements in the array.
19. Count the total number of duplicate elements in an array.
20. Delete all duplicate elements from an array.
21. Merge two arrays to the third array.
22. Find the reverse of an array.
23. Put even and odd elements of an array in two separate arrays.
24. Search an element in an array.
25. Sort array elements in ascending or descending order.
26. Sort even and odd elements of the array separately.
27. Left rotate an array.
28. Right rotate an array.

**Java Matrix Programs for Practice**

1. Java Program to Add Two Matrices
2. Java Program to Multiply Two Matrices
3. Java Program to subtract the two matrices
4. Java Program to determine whether two matrices are equal
5. Java Program to display the lower triangular matrix
6. Java Program to display the upper triangular matrix
7. Java Program to find the frequency of odd & even numbers in the given matrix
8. Java Program to find the product of two matrices
9. Java Program to find the sum of each row and each column of a matrix
10. Java Program to find the transpose of a given matrix
11. Java Program to determine whether a given matrix is an identity matrix
12. Java Program to determine whether a given matrix is a sparse matrix
13. Java Program to Transpose the matrix

# **6. Matrix Questions**

1. Add two matrices.
2. Subtract two matrices.
3. Perform scalar matrix multiplication.
4. Multiply two matrices.
5. Check whether two matrices are equal or not.
6. Sum of the main diagonal elements of a matrix.
7. Find the sum of minor diagonal elements of a matrix.
8. Find the sum of each row and column of a matrix.
9. Interchange diagonals of a matrix.
10. The upper triangular matrix.
11. Find a lower triangular matrix.
12. Sum of the upper triangular matrix.
13. Find the sum of a lower triangular matrix.
14. The transpose of a matrix.
15. Find determinant of a matrix.
16. Identity matrix.
17. Check the sparse matrix.
18. Check the symmetric matrix.

**String Programs**

1. Java Program to count the total number of characters in a string
2. Java Program to count the total number of characters in a string 2
3. Java Program to count the total number of punctuation characters that exist in a String
4. Java Program to count the total number of vowels and consonants in a string
5. Java Program to determine whether two strings are the anagram
6. Java Program to divide a string into ‘N’ equal parts.
7. Java Program to find all subsets of a string
8. Java Program to find the longest repeating sequence in a string
9. Java Program to find all the permutations of a string
10. Java Program to remove all the white spaces from a string
11. Java Program to replace lower-case characters with upper-case and vice-Versa
12. Java Program to replace the spaces of a string with a specific character
13. Java Program to determine whether a given string is a palindrome
14. Java Program to determine whether one string is a rotation of another
15. Java Program to find a maximum and minimum occurring character in a string
16. Java Program to find the Reverse of the string
17. Java program to find the duplicate characters in a string
18. Java program to find the duplicate words in a string
19. Java Program to find the frequency of characters
20. Java Program to find the largest and smallest word in a string
21. Java Program to find the most repeated word in a text file
22. Java Program to find the number of words in the given text file
23. Java Program to separate the Individual Characters from a String
24. Java Program to swap two string variables without using a third or temp variable.
25. Java Program to print the smallest and biggest possible palindrome word in a given string
26. String Char-Case Change
27. A String is Palindrome or Not
28. A String Is an Anagram or Not
29. Find the length of a string.
30. Copy one string to another string.
31. Concatenate two strings.
32. Compare two strings.
33. Convert lowercase string to uppercase.
34. Convert uppercase string to lowercase.
35. Toggle case of each character of a string.
36. Find a total number of alphabets, digits or special character in a string.
37. Count the total number of vowels and consonants in a string.
38. Count the total number of words in a string.
39. Find the reverse of a string.
40. Check whether a string is a palindrome or not.
41. Reverse order of words in a given string.
42. Find the first occurrence of a character in a given string.
43. Find the last occurrence of a character in a given string.
44. Search all occurrences of a character in a given string.
45. Count occurrences of a character in a given string.
46. Find the highest frequency character in a string.
47. Find the lowest frequency character in a string.
48. Count the frequency of each character in a string.
49. Remove the first occurrence of a character from a string.
50. Remove the last occurrence of a character from a string.
51. Delete all occurrences of a character from a string.
52. Remove all repeated characters from a given string.
53. Replace the first occurrence of a character with another in a string.
54. Replace the last occurrence of a character with another in a string.
55. Put all occurrences of a character with another in a string.
56. Find the first occurrence of a word in a given string.
57. Find the last occurrence of a word in a given string.
58. Search all occurrences of a word in a given string.
59. Count occurrences of a word in a given string.
60. Remove the first occurrence of a word from the string.
61. Remove the last occurrence of a word in a given string.
62. Delete all occurrence of a word in a given string.
63. A Trim leading white space characters from a given string.
64. Trim trailing white space characters from a given string.
65. Trim both leading and trailing white space characters from a given string.
66. Remove all extra blank spaces from the given string.

# **9. Function Questions**

1. Cube of any number using the function.
2. Find diameter, circumference and area of a circle using functions.
3. Maximum and minimum between two numbers using functions.
4. Check whether a number is even or odd using functions.
5. Check whether a number is prime, Armstrong or perfect number using functions.
6. Find all prime numbers between the given interval using functions.
7. Print all strong numbers between the given interval using functions.
8. Armstrong numbers between the given interval using functions.
9. Print all perfect numbers between the given interval using functions.
10. Find the power of any number using recursion.
11. Print all natural numbers between 1 to n using recursion.
12. Print all even or odd numbers in a given range using recursion.
13. Sum of all natural numbers between 1 to n using recursion.
14. Find the sum of all even or odd numbers in a given range using recursion.
15. Find reverse of any number using recursion.
16. Check whether a number is a palindrome or not using recursion.
17. Find the sum of digits of a given number using recursion.
18. Find factorial of any number using recursion.
19. Generate nth Fibonacci term using recursion.
20. Find gcd (HCF) of two numbers using recursion.
21. Find lcm of two numbers using recursion.
22. Display all array elements using recursion.
23. Find the sum of elements of the array using recursion.
24. Find maximum and minimum elements in an array using recursion.
25. Stricmp() Function (Case In-Sensitive Compare)
26. Strncat() Function (String Concatenate)
27. Strstr() Function (Sub-String)
28. Strlwr() Function (To Lower-Case)
29. Strupr() Function (To Upper-Case)
30. Strncmp() Compare & Chars
31. Strncpy() Copy N Chars
32. Strrev() String Reverse
33. Strlen() String Length
34. Strcat() String Concatenate
35. Strcmp() String Compare
36. Strcpy() Copy the String

# **11. File Handling**

1. Create a file and write contents, save and close the file.
2. Read file contents and display them on the console.
3. Read numbers from a file and write even, odd and prime numbers to separate file.
4. Append content to a file.
5. Compare two files.
6. How to Copy contents from one file to another file.
7. Merge two files to the third file.
8. Count characters, words and lines in a text file.
9. Delete a word from a text file.
10. Remove the specific line from a text file.
11. Remove empty lines from a text file.
12. Find the occurrence of a word in a text file.
13. Count occurrences of a word in a text file.
14. Count occurrences of all words in a text file.
15. Find and replace a word in a text file.
16. Replace a specific line in a text file.
17. Print source code of the same program.
18. Convert uppercase to the lowercase character and vice versa in a text file.
19. Find properties of a file using stat() function.
20. Check if a file or directory exists.
21. Rename a file using rename() function.
22. List all files and sub-directories recursively.

**Conversion Programs List in Java for Practice**

1. How to convert String to int in Java
2. How to convert int to String in Java
3. How to convert String to long in Java
4. How to convert long to String in Java
5. How to convert String to float in Java
6. How to convert float to String in Java
7. How to convert String to double in Java
8. How to convert double to String in Java
9. How to convert String to Date in Java
10. How to convert Date to String in Java
11. How to convert String to char in Java
12. How to convert char to String in Java
13. How to convert String to Object in Java
14. How to convert an Object to a String in Java
15. How to convert int to long in Java
16. How to convert long to int in Java
17. How to convert int to double in Java
18. How to convert double to int in Java
19. How to convert char to int in Java
20. How to convert int to char in Java
21. How to convert String to boolean in Java
22. How to convert a boolean to a String in Java
23. How to convert date to Timestamp in Java
24. How to convert timestamp to Date in Java
25. How to convert binary to Decimal in Java
26. How to convert decimal to Binary in Java
27. How to convert hex to Decimal in Java
28. How to convert decimal to Hex in Java
29. How to convert octal to Decimal in Java
30. How to convert decimal to Octal in Java

**OPPS**

1. Create a class Employee and encapsulate the data members.
2. Create demo applications to illustrate different types of inheritance.
3. Create an Array of Employee class and initialize array elements with different employee objects.
4. Try to understand the no of objects on heap memory when any array is created.
5. Create a demo application to understand the role of access modifiers.
6. Implement multilevel inheritance using different packages.
7. Access/invoke protected members/methods of a class outside the package.
8. Override finalize method to understand the behavior of JVM garbage collector.
9. Create sample classes to understand boxing & unboxing.
10. Use different methods of java defined wrapper classes.
11. Create StringDemo class and perform different string manipulation methods.
12. Tutorial:
13. Understand the difference between String / StringBuffer / StringBuilder.
14. Create user defined checked and unchecked exceptions .
15. Create a Demo class to Read & write image/text files. Create SerializationDemo class to illustrate serialization and de-serialization process.
16. Create DateManipulator class to convert String to date, date to String and to find out
17. number of days between two dates.
18. Create a List of java defined wrapper classes and perform insert/delete/search/iterate/sort operations.
19. Create a collection of Employee class and sort objects using comparable and comparator interfaces.
20. Implement Queue data structure using LinkedList and Queue collection
21. Create an Employee HashSet collection and override equals & hashCode methods to understand how the set maintains uniqueness using these methods.
22. Create a Sample class to understand generic assignments using “? extends SomeClass” , “? Super someclass ” and “?”.

**Searching**

1. Linear Search
2. Binary Search
3. Recursive Binary Search

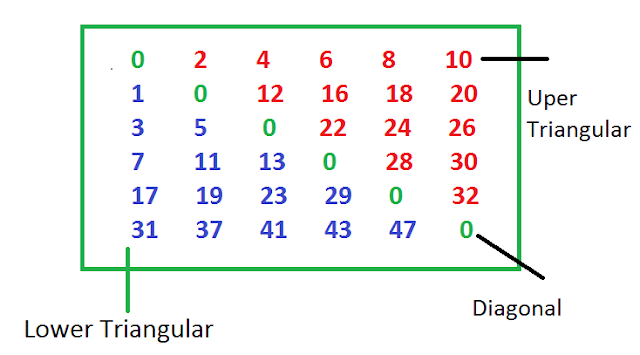
# **12. Sorting**

1. Bubble Sort in Java
2. Selection Sort in Java
3. Insertion Sort in Java
4. Bucket or Radix Sort
5. Shell Sort
6. Merge Sort
7. Heap Sort
8. Selection Sort
9. Insertion Sort

## **15. Puzzles Questions**

1. Print numbers from 1 to n without using a semicolon?
2. Sum of two numbers without using any operator
3. How to show memory representation of c variables?
4. Condition to print “HelloWorld”
5. Modify/add only one character and print ‘\*’ exactly 20 times
6. Sum the digits of a given number in a single statement?

**4. Java Pattern Program**

Java Program to Print Even Numbers in Upper Triangular and Odd Numbers in Lower Triangular in a Matrix  


### **5. AWT / Swing / Applet (GUI) Java Programs**

1. [Java Program Using Applet to Implement an Arithmetic Calculator](https://www.programmingwithbasics.com/2023/02/calculator-program-in-java-using-applet.html)
2. [How to Run Java Applet Program in CMD Using appletviewer](https://www.programmingwithbasics.com/2023/02/run-java-applet-program-in-cmd.html)
3. [An Applet Program That Prints Random Dot in Java](https://www.programmingwithbasics.com/2017/11/an-applet-program-that-print-random-dot.html)
4. [Bouncing Ball Program in Java Using Applet](https://www.programmingwithbasics.com/2017/11/bouncing-ball-program-in-java-using.html)

**Reference :** https://www.programmingwithbasics.com/p/list-java-programs.html

**Singly Linked List Java Programs**

1. Java Program to create and display a singly linked list
2. Java program to create a singly linked list of n nodes and count the number of nodes
3. Java program to create a singly linked list of n nodes and display it in reverse order
4. Java program to delete a node from the beginning of the singly linked list
5. Java program to delete a node from the middle of the singly linked list
6. Java program to delete a node from the end of the singly linked list
7. Java program to determine whether a singly linked list is the palindrome
8. Java program to find the maximum and minimum value node from a linked list
9. Java Program to insert a new node in the middle of the singly linked list
10. Java program to insert a new node at the beginning of the singly linked list
11. Java program to insert a new node at the end of the singly linked list
12. Java program to remove duplicate elements from a singly linked list
13. Java Program to search an element in a singly linked list

**Circular Linked List Java Programs**

1. Java program to create and display a Circular Linked List
2. Java program to create a Circular Linked List of N nodes and count the number of nodes
3. Java program to create a Circular Linked List of n nodes and display it in reverse order
4. Java program to delete a node from the beginning of the Circular Linked List
5. Java program to delete a node from the end of the Circular Linked List
6. Java program to delete a node from the middle of the Circular Linked List
7. Java program to find the maximum and minimum value node from a circular linked list
8. Java program to insert a new node at the beginning of the Circular Linked List
9. Java program to insert a new node at the end of the Circular Linked List
10. Java program to insert a new node in the middle of the Circular Linked List
11. Java program to remove duplicate elements from a Circular Linked List
12. Java program to search an element in a Circular Linked List
13. Java program to sort the elements of the Circular Linked List

**Java Doubly Linked List Programs**

1. Java program to convert a given binary tree to a doubly-linked list
2. Java program to create a doubly linked list from a ternary tree
3. Java program to create a doubly-linked list of n nodes and count the number of nodes
4. Java program to create a doubly-linked list of n nodes and display it in reverse order
5. Java program to create and display a doubly linked list
6. Java program to delete a new node from the beginning of the doubly linked list
7. Java program to delete a new node from the end of the doubly linked list
8. Java program to delete a new node from the middle of the doubly linked list
9. Java program to find the maximum and minimum value node from a doubly linked list
10. Java program to insert a new node at the beginning of the Doubly Linked list
11. Java program to insert a new node at the end of the Doubly Linked List
12. Java program to insert a new node in the middle of the Doubly Linked List
13. Java program to remove duplicate elements from a Doubly Linked List
14. Java program to rotate doubly linked list by N nodes
15. Java program to search an element in a doubly-linked list
16. Java program to sort the elements of the doubly linked list

**Tree Java Programs**

1. Java Program to calculate the Difference between the Sum of the Odd Level and the Even Level Nodes of a Binary Tree
2. Java program to construct a Binary Search Tree and perform deletion and In-order traversal
3. Java program to convert Binary Tree to Binary Search Tree
4. Java program to determine whether all leaves are at the same level
5. Java program to determine whether two trees are identical
6. Java program to find the maximum width of a binary tree
7. Java program to find the largest element in a Binary Tree
8. Java program to find the maximum depth or height of a tree
9. Java program to find the nodes which are at the maximum distance in a Binary Tree
10. Java program to find the smallest element in a tree
11. Java program to find the sum of all the nodes of a binary tree
12. Java program to find the total number of possible Binary Search Trees with N keys
13. Java program to implement Binary Tree using the Linked List
14. Java program to search a node in a Binary Tree

**For Solutions Please Visit.**

https://cstutorialpoint.com/c-programming-examples/

<https://www.programmingwithbasics.com/p/basic-c-programs-for-practice-pdf.html>

<https://www.programmingwithbasics.com/p/list-java-programs.html>

<https://www.javaguides.net/p/java-programs-for-beginners.html>

<https://www.programiz.com/java-programming/examples>

https://beginnersbook.com/2017/09/java-examples/

## <https://www.javaguides.net/p/java-programs-for-beginners.html>

## Java String Programs with Output

1. [**Java Program to Find the First Non-repeated Character in a String**](https://www.javaguides.net/2023/08/java-program-to-find-first-non-repeated-character-in-string.html)
2. [**Java Program to Check Palindrome String**](https://www.javaguides.net/2023/08/java-program-to-check-palindrome-string.html)
3. [**Java Program to Find Duplicate Characters in a String**](https://www.javaguides.net/2023/08/java-program-to-find-duplicate-characters-in-a-string.html)
4. [**Java Program to Find Duplicate Words in a String**](https://www.javaguides.net/2023/08/java-program-to-find-duplicate-words-in-string.html)
5. [**Java Program to Find All the Permutations of a String**](https://www.javaguides.net/2023/08/java-program-to-find-all-permutations.html)
6. [**Java Program to Count Occurrences of Words in a String**](https://www.javaguides.net/2023/08/java-program-to-count-occurrences-of-words-in-string.html)
7. [**Java Program to Count the Occurrences of Each Character**](https://www.javaguides.net/2023/08/java-program-to-count-occurrences-of-each-character.html)
8. [**Java Program to Count Vowels and Consonants in a String**](https://www.javaguides.net/2023/08/java-program-to-count-vowels-and-consonants-in-string.html)
9. [**Java program to Count the Number of Duplicate Words in a String**](https://www.javaguides.net/2018/08/java-program-to-count-number-of-duplicate-words-in-string.html)
10. [**Java Program to Count Number of Words in Given String**](https://www.javaguides.net/2018/08/java-program-to-count-number-of-words-in-given-string.html)
11. [**Java Program to Count the Number of Occurrences of Substring in a String**](https://www.javaguides.net/2018/08/java-program-to-count-number-of-occurrences-of-substring-in-string.html)
12. [**Java Program to Count the Occurrences of Each Character in String**](https://www.javaguides.net/2018/08/java-program-to-count-occurrences-of-each-character-in-string.html)
13. [**Java Program to Merge Two String Arrays**](https://www.javaguides.net/2018/08/java-program-to-merge-two-string-arrays.html)
14. [**Java Program to Remove Duplicate Words from String**](https://www.javaguides.net/2018/08/java-program-to-remove-duplicate-words-from-string.html)
15. [**Java Program to Reverse a String(5 ways)**](https://www.javaguides.net/2018/08/java-program-to-reverse-string.html)
16. [**Java Program to Reverse Each Word of a String**](https://www.javaguides.net/2018/08/java-program-to-reverse-each-word-of-string.html)
17. [**Java Program to Swap Two Strings**](https://www.javaguides.net/2018/08/java-program-to-swap-two-strings.html)
18. [**How to Check if the String Contains Only Digits**](https://www.javaguides.net/2018/08/how-to-check-if-string-contains-only-digits.html)
19. [**How to Check if the String Contains Only Letters**](https://www.javaguides.net/2018/08/how-to-check-if-string-contains-only-letters.html)
20. [**How to Check If the String Contains Only Letters or Digits**](https://www.javaguides.net/2018/08/how-to-check-if-string-contains-only-letters-or-digits.html)

## Java Array Programs with Output

1. [**Java Program to Reverse an Array Without Using Another Array**](https://www.javaguides.net/2018/08/java-program-to-reverse-array-without-using-another-array.html)
2. [**Java Program to Find Duplicate Elements in an Array**](https://www.javaguides.net/2023/08/java-program-to-find-duplicate-elements.html)
3. [**Java Program to Find Largest Number in an Array**](https://www.javaguides.net/2023/08/java-program-to-find-largest-number-in-an-array.html)
4. [**Java Program to Check the Equality of Two Arrays**](https://www.javaguides.net/2018/08/java-program-to-check-equality-of-two-arrays.html)

## Java Number Programs with Output

1. [**Java Program to Find Sum of Natural Numbers**](https://www.javaguides.net/2023/08/java-program-to-find-sum-of-natural.html)
2. [**Java Program to Reverse a Number**](https://www.javaguides.net/2023/08/java-program-to-reverse-number.html)
3. [**Java Program to Find Prime Numbers**](https://www.javaguides.net/2023/08/java-program-to-find-prime-numbers.html)
4. [**Java Program to Check Armstrong Number**](https://www.javaguides.net/2023/08/java-program-to-check-armstrong-number.html)
5. [**Java Program to Count the Number of Digits in a Number**](https://www.javaguides.net/2023/08/java-program-to-count-number-of-digits-in-a-string.html)
6. [**Java Program for Prime Numbers Within a Range**](https://www.javaguides.net/2023/08/java-program-for-prime-numbers-within-a-range.html)

## Java 8 Programs with Output

1. [**Java 8 Program to Find the Frequency of Each Character in a Given String**](https://www.javaguides.net/2024/02/java-8-program-to-find-frequency-of-each-character-in-given-string.html)
2. [**Java 8 Program to Find the Maximum Number and Minimum Number in a List**](https://www.javaguides.net/2024/02/java-8-program-to-find-maximum-number-and-minimum-number-in-list.html)
3. [**Java 8 Program to Find the Second Largest Number in the List of Integers**](https://www.javaguides.net/2024/02/java-8-program-to-find-second-largest-number-in-list-of-integers.html)
4. [**Java 8 Program to Find the Age of a Person if the Birthday Date has Given**](https://www.javaguides.net/2024/02/java-8-program-to-find-age-of-person-if-birthday-date-has-given.html)
5. [**Java 8 Program to Find the Sum of All Digits of a Number**](https://www.javaguides.net/2024/02/java-8-program-to-find-sum-of-all-digits-of-number.html)
6. [**Java 8 Program to Print Even Numbers from a List**](https://www.javaguides.net/2024/02/java-8-program-to-print-even-numbers-from-list.html)
7. [**Java 8 Program to Remove Duplicate Elements from a List**](https://www.javaguides.net/2024/02/java-8-program-to-remove-duplicate-elements-from-list.html)
8. [**Java 8 Program to Retrieve Last Element of a List of Strings**](https://www.javaguides.net/2024/02/java-8-program-to-retrieve-last-element-of-list-of-strings.html)
9. [**Java 8 Program to Reverse Each Word of String**](https://www.javaguides.net/2024/02/java-8-program-to-reverse-each-word-of-string.html)
10. [**Java 8 Program to Sort List of Strings Alphabetically**](https://www.javaguides.net/2024/02/java-8-program-to-sort-list-of-strings-alphabetically.html)

## Java Pattern Programs with Output

1. [**Java Program for Diamond Shape Pattern**](https://www.javaguides.net/2024/02/java-program-for-diamond-shape-pattern.html)
2. [**Java Program to Print Character Pyramid Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-character-pyramid-pattern.html)
3. [**Java Program to Print a Pyramid**](https://www.javaguides.net/2024/02/java-program-to-print-pyramid.html)
4. [**Java Program to Print an Inverted Pyramid**](https://www.javaguides.net/2024/02/java-program-to-print-inverted-pyramid.html)
5. [**Java Program to Print a Hollow Pyramid**](https://www.javaguides.net/2024/02/java-program-to-print-hollow-pyramid.html)
6. [**Java Program to Print a Diamond Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-diamond-pattern.html)
7. [**Java Program to Print a Right Triangle Star Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-right-triangle-star-pattern.html)
8. [**Java Program to Print an Inverted Right Triangle Star Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-inverted-right-triangle-star-pattern.html)
9. [**Java Program to Print a Left Triangle Star Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-left-triangle-star-pattern.html)
10. [**Java Program to Print a Pascal's Triangle**](https://www.javaguides.net/2024/02/java-program-to-print-pascals-triangle.html)
11. [**Java Program to Print a Fibonacci Pyramid**](https://www.javaguides.net/2024/02/java-program-to-print-fibonacci-pyramid.html)
12. [**Java Program to Print a Number Pyramid**](https://www.javaguides.net/2024/02/java-program-to-print-number-pyramid.html)
13. [**Java Program to Print a Reverse Number Pyramid**](https://www.javaguides.net/2024/02/java-program-to-print-reverse-number-pyramid.html)
14. [**Java Program to Print a Hollow Square Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-hollow-square.html)
15. [**Java Program to Print a Cross (X) Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-cross-x-pattern.html)
16. [**Java Program to Print a Plus (+) Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-plus-pattern.html)
17. [**Java Program to Print a Butterfly Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-butterfly-pattern.html)
18. [**Java Program to Print a Diamond Shape with Numbers**](https://www.javaguides.net/2024/02/java-program-to-print-diamond-shape-with-numbers.html)
19. [**Java Program to Print an Alphabet Pyramid**](https://www.javaguides.net/2024/02/java-program-to-print-alphabet-pyramid.html)
20. [**Java Program to Print a Heart Shape Star Pattern**](https://www.javaguides.net/2024/02/java-program-to-print-heart-shape-star-pattern.html)

## Java Programs on OOP (Object-Oriented Programming) with Output

1. [**Java Program to Calculate Salary of an Employee**](https://www.javaguides.net/2023/08/java-program-to-calculate-salary-of-an-employee.html)
2. [**Java Program to Calculate Gross Salary of Employee**](https://www.javaguides.net/2023/08/java-program-to-calculate-gross-salary.html)

## Java Programs on Data Structures and Algorithms

1. [**Java Program to Reverse a Linked List**](https://www.javaguides.net/2023/09/java-program-to-reverse-linked-list.html)
2. [**Detecting a Cycle in a Linked List Using Java**](https://www.javaguides.net/2023/09/detecting-cycle-in-linked-list-using-java.html)
3. [**Finding the Middle Element of a Linked List using Java**](https://www.javaguides.net/2023/09/inding-middle-element-of-linked-list-using-java.html)
4. [**Merging Two Sorted Linked Lists using Java**](https://www.javaguides.net/2023/09/merging-two-sorted-linked-lists-using-java.html)
5. [**Queue Implementation in Java Using Array**](https://www.javaguides.net/2023/09/queue-implementation-in-java-using-array.html)
6. [**Queue Implementation in Java Using ArrayList**](https://www.javaguides.net/2023/09/queue-implementation-in-java-using.html)
7. [**Queue Implementation in Java Using LinkedList**](https://www.javaguides.net/2023/09/queue-implementation-in-java-using_4.html)
8. [**Queue Implementation in Java Using Two Stacks**](https://www.javaguides.net/2023/09/queue-implementation-in-java-using-two.html)
9. [**Priority Queue Implementation in Java Using Linked List**](https://www.javaguides.net/2023/09/priority-queue-implementation-in-java.html)
10. [**Linked List Implementation in Java Using Arrays**](https://www.javaguides.net/2023/09/linked-list-implementation-in-java.html)
11. [**Doubly Linked List Implementation in Java**](https://www.javaguides.net/2023/09/doubly-linked-list-implementation-in.html)
12. [**Circular Linked List Implementation in Java**](https://www.javaguides.net/2023/09/circular-linked-list-implementation-in-java.html)
13. [**Deque Implementation in Java**](https://www.javaguides.net/2023/09/deque-implementation-in-java.html)
14. [**Finding the Height of a Binary Tree in Java**](https://www.javaguides.net/2023/09/finding-height-of-binary-tree-in-java.html)
15. [**Determining if a Binary Tree is Balanced in Java**](https://www.javaguides.net/2023/09/determining-if-binary-tree-is-balanced.html)
16. [**Implementing Binary Search Tree (BST) Operations in Java**](https://www.javaguides.net/2023/09/implementing-binary-search-tree-bst-operations-in-java.html)
17. [**Finding the Lowest Common Ancestor in a BST using Java**](https://www.javaguides.net/2023/09/finding-lowest-common-ancestor-in-bst.html)