

## 1. Basic Programs

- Java Program to Read The Number From Standard Input
- Java Program to Get Input from the User
- Java Program to Multiply Two Floating-Point Numbers
- Java Program to Swap Two Numbers
- Java Program to Add Two Binary Strings
- Java Program to Add Two Complex numbers
- Java Program to Check Even or Odd Integers
- Java Program to Find Largest Among 3 Numbers
- Java Program to Find LCM of 2 numbers
- Java Program to Find GCD or HCF of 2 numbers
- Java Program to Display All Prime Numbers from 1 to N
- Java Program to Check Leap Year
- Java Program to Check Armstrong Number between Two Integers
- Java Program to Check whether the input number is a Neon Number
- Java Program to Check whether input character is vowel or consonant
- Java Program to Find Factorial of a number
- Java Program to Find Even Sum of Fibonacci Series Till number N
- Java Program to Calculate Simple Interest
- Java Program to Calculate Compound Interest
- Java Program to Find the Perimeter of a Rectangle

## 2. Pattern Programs

- Java Program to Print Right Triangle Star Pattern
- Java Program to Print Left Triangle Star Pattern
- Java Program to Print Pyramid Star Pattern
- Java Program to Print Reverse Pyramid Star Pattern
- Java Program to Print Upper Star Triangle Pattern
- Java Program to Print Mirror Upper Star Triangle Pattern
- Java Program to Print Downward Triangle Star Pattern
- Java Program to Print Mirror Lower Star Triangle Pattern
- Java Program to Print Star Pascal's Triangle
- Java Program to Print Diamond Star Pattern
- Java Program to Print Square Star Pattern
- Java Program to Print Pyramid Star Pattern
- Java Program to Print Spiral Pattern of Numbers

## 3. Conversion Programs

- Java Program For Binary to Octal Conversion
- Java Program For Octal to Decimal Conversion
- Java Program For Decimal to Octal Conversion

- Java Program For Hexadecimal to Decimal Conversion
- Java Program For Decimal to Hexadecimal Conversion
- Java Program For Decimal to Binary Conversion
- Java Program For Binary to Decimal Conversion
- Java Program For Boolean to String Conversion
- Java Program For String to Double Conversion
- Java Program For Double to String Conversion
- Java Program For String to Long Conversion
- Java Program For Long to String Conversion
- Java Program For Int to Char Conversion
- Java Program For Char to Int Conversion

#### 4. Classes and Object Programs

- Java Program to Create a Class and Object
- Java Program to Create Abstract Class
- Java Program to Create Singleton Class
- Java Program to Create an Interface
- Java Program to Show Encapsulation in Class
- Java Program to Show Inheritance in Class
- Java Program to Show Abstraction in Class
- Java Program to Show Data Hiding in Class
- Java Program to Show Polymorphism in Class
- Java Program to Show Overloading of Methods in Class
- Java Program to Show Overriding of Methods in Classes
- Java Program to Show Use of Super Keyword in Class
- Java Program to Show Use of This Keyword in Class
- Java Program to Show Usage of Static keyword in Class
- Java Program to Show Usage of Access Modifier

#### 5. Java Methods Programs

- Java Program to Show Usage of Main() method
- Java Program to Show Use of Static and Non-static Methods
- Java Program to Show Usage of forEach() Method
- Java Program to Show Usage of toString() Method
- Java Program to Show Usage of codePointAt() Method
- Java Program to Show Usage of compare() Method
- Java Program to Show Usage of equals() Method
- Java Program to Show Usage of hasNext() and next() Method
- Thread Lifecycle Methods
- start() Method
- run() Method

#### 6. Searching Programs

- Java Program For Linear Search
- Java Program For Binary Search
- Java Program to Recursively Linearly Search an Element in an Array

## 7. 1-D Array Programs

- Java Program to Search an Element in an Array
- Java Program to Find the Largest Element in an Array
- Java Program to Sort an Array
- Java Program to Sort the Elements of an Array in Descending Order
- Java Program to Sort the Elements of an Array in Ascending Order
- Java Program to Remove Duplicate Elements From an Array
- Java Program to Merge Two Arrays
- Java Program to Check if Two Arrays Are Equal or Not
- Java Program to Remove All Occurrences of an Element in an Array
- Java Program to Find Common Array Elements
- Java Program to Copy All the Elements of One Array to Another Array
- Java Program For Array Rotation

## 8. 2-D Arrays (Matrix) Programs

- Java Program to Print a 2D Array
- Java Program to Add Two Matrices
- Java Program to Sort the 2D Array Across Columns
- Java Program to Check Whether Two Matrices Are Equal or Not
- Java Program to Find the Transpose
- Java Program to Find the Determinant
- Java Program to Find the Normal and Trace
- Java Program to Print Boundary Elements of a Matrix
- Java Program to Rotate Matrix Elements
- Java Program to Compute the Sum of Diagonals of a Matrix
- Java Program to Interchange Elements of First and Last in a Matrix Across Rows
- Java Program to Interchange Elements of First and Last in a Matrix Across Columns

## 9. String Programs

- Java Program to Get a Character From the Given String
- Java Program to Replace a Character at a Specific Index
- Java Program to Reverse a String
- Java Program to Reverse a String Using Stacks
- Java Program to Sort a String
- Java Program to Swapping Pair of Characters
- Java Program to Check Whether the Given String is Pangram
- Java Program to Print first letter of each word using regex
- Java Program to Determine the Unicode Code Point at a given index

- Java Program to Remove leading zeros
- Java Program to Compare two strings
- Java Program to Compare two strings lexicographically
- Java Program to Print even length words
- Java Program to Insert a string into another string
- Java Program to Splitting into a number of sub-strings

#### 10. List Programs

- Java Program to Initializing a List
- Java Program to Find a Sublist in a List
- Java Program to Get Minimum and Maximum From a List
- Java Program to Split a list into Two Halves
- Java Program to Remove a Sublist from a List
- Java Program to Remove Duplicates from an Array List
- Java Program to Remove Null from a List container
- Java Program to Sort Array list in an Ascending Order
- Java Program to Get First and Last Elements from an Array List
- Java Program to Convert a List of String to Comma Separated String
- Java Program to Add Element at First and Last Position of a Linked list
- Java Program to Find Common Elements in Two ArrayList
- Java Program to Remove Repeated Element From An ArrayList

#### 11. Date and Time Programs

- Java Program to Format time in AM-PM format
- Java Program to Display Dates of Calendar Year in Different Format
- Java Program to Display current date and time
- Java Program to Display time in different country's format
- Java Program to Convert the local Time to GMT

### 12. File Programs

- Java Program to Create a new file
- Java Program to Create a temporary file
- Java Program to Write into a file
- Java Program to Rename a file in java
- Java Program to Make a File Read-Only
- Java Program to Compare Paths of Two files
- Java Program to Copy one file into another file
- Java Program to Print all the Pattern that Matches Given Pattern From a File
- Java Program to Append a String in an Existing File
- Java Program to Read content from one file and writing it into another file
- Java Program to Read and printing all files from a zip file
- 13. Directory Programs

- Java Program to Traverse in a directory
- Java Program to Get the size of a directory
- Java Program to Delete a directory
- Java Program to Create directories recursively
- Java Program to Search for a file in a directory
- Java Program to Find the current working directory
- Java Program to Display all the directories in a directory
- 14. Exceptions and Errors Programs
- Java Program to Show Runtime exceptions
- Java Program to Show Types of errors
- Java Program to Handle the Exception Hierarchies
- Java Program to Handle the Exception Methods
- Java program to Handle the Checked exceptions
- Java Program to Handle the Unchecked Exceptions
- Java Program to Handle Divide By Zero and Multiple Exceptions
- Java Program to Show Unreachable Code Error
- Java Program to Show Thread interface and memory consistency errors
- 15. Collections Programs
- Java Program to Use Different Types of a Collection
- Java Program to Print a Collection
- Java Program to Compare Elements in a Collection
- Java Program to Get the Size of the Collection
- Java Program to Compare Elements in a Collection
- Java Program to Shuffle the Elements of a Collection
- Java Program to Reverse a Collection
- Java Program to Convert Collection into Array
- Java Program to Convert Array into Collection
- Java Program to Replace Elements in a List
- Java Program to Rotate Elements of a List
- Java Program to Iterate through Elements of HashMap
- 16. Multithreading Programs
- Java Program to Check the Thread Status
- Java Program to Suspend a Thread
- Java Program to Join Threads
- Java Program to Show Daemon Thread
- 17. More Java Programs
- Java Program to Print Fibonacci Series in Different Ways
- Java Program to Convert Linked list to an Array
- Java Program to Convert Vector to a List
- Java Program to Convert String to a List of Characters
- Java Program to Convert Iterator to a List
- Java Program to Convert List to a Map
- Java Program to Convert List to a Stream

- Java Program to Convert List to Set
- Java Program to Convert InputStream to String
- Java Program to Convert Set of String to Array of String
- Java Program to Convert String to Object
- Java Program to Convert string value to byte value