

# JAVA BASIC PROGRAM

- [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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***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](#)

## **Java Searching Programs**

- [Java Program For Linear Search](#)
- [Java Program For Binary Search](#)
- [Java Program to Recursively Linearly Search an Element in an Array](#)

## **Java 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](#)

## **Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)

## ***Java 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](#)