
1 Basic Java Programs (Fundamentals & Utilities)

1. **4sum.java** – Solves the 4-sum problem, commonly used in competitive programming.
2. **Binary_Search.java** – Implements binary search, an efficient searching algorithm.
3. **Bino.java** – A program related to binomial coefficients or binomial theorem.
4. **binToDec.java** – Converts a binary number to a decimal number.
5. **BMI.java / BMI_calculator.java** – Calculates Body Mass Index based on height and weight.
6. **Factorial.java / Factorial_prime_avg.java** – Computes the factorial of a number and its variations.
7. **FibonacciGenerator.java** – Generates a Fibonacci sequence up to a given number.
8. **FizzBuzz.java** – Classic programming challenge to print numbers with conditions on divisibility.
9. **FlipCoin.java** – Simulates a coin toss.
10. **Guess.java / guessnumber.java / numberGuessingGame.java** – Number guessing game with randomization.

2 Data Structures & Algorithms (DSA)

1. **Circular_queue.java** – Implements a circular queue data structure.
2. **BSTVisualization.java** – Visualizes a Binary Search Tree (BST).
3. **Heapsort.java** – Implementation of the Heap Sort algorithm.
4. **Kadanes_Algorithm.java** – Solves the maximum subarray sum problem using Kadane's algorithm.
5. **Knapsack_algo.java** – Solves the Knapsack problem, a well-known dynamic programming problem.
6. **Lexico_String.java** – Works with lexicographical order of strings.
7. **Linearsearch.java** – Implements linear search, the simplest search algorithm.
8. **Merge_Sort.java** – Implements Merge Sort, a popular sorting algorithm.
9. **QuickSort.java** – Implements QuickSort, an efficient sorting algorithm.
10. **TopologicalSortGraph.java** – Performs topological sorting on a directed graph.

3 GUI-Based Java Applications (Swing, AWT, JavaFX)

1. **Calculator.java / Calculator_frame.java / Scientific_Calculator.java** – Fully functional calculators with GUI.
2. **attendance_percent.java** – Calculates and manages student attendance.

3. **alarm_clock.java** – A digital alarm clock with GUI.
 4. **AnalogClock.java / AppletAnalogClock.java** – Displays an analog clock in Java.
 5. **button1.class / button2.class / button3.class** – Demonstrates button interactions in Java Swing/AWT.
 6. **Chess.java / ChessBoard.py** – A simple chess game implementation.
 7. **Clock.java / digitalWatch3524.java** – Displays a digital clock with real-time updates.
 8. **LoginPage.java** – A GUI-based login page template.
 9. **painting.java** – A drawing/painting app with a graphical interface.
 10. **textEditor.java** – A simple notepad-like text editor using Java Swing.
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4 Full-Fledged Applications (Systems & Management)

1. **AirlineReservationSystem.java** – Manages flight reservations and booking.
 2. **Bank.java / Banking.java / bank_account.java** – Simulates bank transactions like deposits and withdrawals.
 3. **Employee Attendance System.java** – Tracks and manages employee attendance.
 4. **Library Management.java / Library Catalog System.java** – Manages library books and user records.
 5. **Online_Exam_System.java / OnlineJavaTest.java** – Conducts online exams with multiple-choice questions.
 6. **ExpenseTracker.java** – A financial management system to track daily expenses.
 7. **StockPortfolioTracker.java** – Tracks stock investments and portfolio performance.
 8. **Student Management System.java** – Handles student records, grades, and courses.
 9. **Task List Application.java / todoapp.java** – A to-do list manager for productivity.
 10. **Weather.py** – Fetches and displays real-time weather data.
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5 Fun & Game Development

1. **Minesweeper_game.java** – Classic minesweeper game implementation.
 2. **RockPaperScissor.js / RockpaperScissorgame.java** – A Rock-Paper-Scissors game.
 3. **SudokuPuzzle.java / SudokuSolver.java** – A Sudoku game and solver.
 4. **snakeWaterGun.java** – A variation of Rock-Paper-Scissors with Snake, Water, and Gun.
 5. **tik_tak_toe.java** – The classic Tic-Tac-Toe game.
 6. **puzzleGame.java** – A simple puzzle-solving game.
 7. **hangman.java / Hangmangame.java** – A word-guessing game based on Hangman.
 8. **rightpyramid.java** – A pattern-based pyramid game or visualization.
 9. **BounceBalls.py** – A simple bouncing ball simulation.
 10. **BreakOutBall.java** – A Brick Breaker-style game.
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6 Security & Utility Applications

1. **File_Encryption.Java** – Encrypts files for security purposes.
 2. **Java_password_generator.java / randomPasswordGenerator.java** – Creates strong passwords.
 3. **Password Manager.java** – Securely stores and retrieves passwords.
 4. **UrlShortener.java** – Converts long URLs into short links.
 5. **Host-checker.java** – Checks the status of a website or server.
 6. **Verbalize3524.java** – Converts text into speech or provides voice-based interactions.
 7. **passcode.java / passowrd¬es.java** – Stores secure notes and passwords.
 8. **Serialization.java** – Demonstrates Java's serialization feature for saving objects.
 9. **qr_code_generator.java** – Generates QR codes from text or URLs.
 10. **ShipingCostCalculator.java** – Estimates shipping costs based on parameters.
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7 Advanced Programming Concepts

1. **Multithread.java / Multithreading.java** – Demonstrates Java's multithreading capabilities.
 2. **Inheritance.java / inheritance&polymorphism.java** – Demonstrates object-oriented programming concepts.
 3. **Interface.java** – Shows how Java interfaces work.
 4. **Enumerations.java** – Works with Java Enum types.
 5. **Serialization.java** – Demonstrates Java object serialization.
 6. **tree.cpp** – A C++ program related to tree data structures.
 7. **RecursiveFactorial.java** – Solves factorials using recursion.
 8. **Reverse_Linked_List.java** – Reverses a linked list using Java.
 9. **Sparse_Array.java** – Implements sparse arrays for optimized storage.
 10. **WiggleSort.java** – Implements the Wiggle Sort algorithm.
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Final Thoughts

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AppletCom.java
appletComs.java
appletQuiz.java
attendance_percent.java
AwtMouseListener.java
bank account.java
Bank.java
Banking.java
Binary_Search.java
Bino.java
binToDec.java
BMI_calculator.java
BMI.java
Board.java
BounceBalls.py
breakOutBall.java
BSTVisualization.java
Bug3524.java
build.xml
button1.class
button2.class
button3.class
calander.java

Calc.java
Calculator_frame.java
Calculator.java
Calculator.py
CalculatorAWT.java
CandyVendor.java
CanvasDemo.py
CArray.java
Challenge.java
ChangeClockTime.py
ChangeLabelDemo.py
CheckSudokuSolution.py
chess.java
ChessBoard.py
Circular_queue.java
clock.java
clockapplet.java
code.java
ColorCodeConverter.java
ColorShapes.py
ComputeLoan.py
CPUSchedullingAlgorithm.c
Currency Converter.java
currencyconvert.java
dataType3524.java
DateChooser.jar
dateTime3524.java
decToBin.java
digitalWatch3524.java
displayImage.java
DomesticFlight.class
DomesticFlight.java
DoubleArrayCompair.java

ElectricVehicleRunningTime.java
Employee Attendance System.java
enumerations.java
exam.class
exam.java
ExitListener.class
ExitListener.java
ExpenseTracker.java
facemask.py
Factorial_prime_avg.java
factorial.java
FibonacciGenerator.java
File_Encryption.Java
fileexplorer.java
finalVelocity3524.java
FizzBuzz.java
flight_ticket.java
FlipCoin.java
greet.java
Guess.java
guessnumber.java
haarcascade_frontalface_default.xml
hangman.java
Hangmangame.java
headsTails3524.java
Heapsort.java
helloWorld3524.java
Hospital_scrapper.java
Host-checker.java
index.html
Inheritance.java
inheritance&polymorphism.java
interface.java

InternationalFlight.class
InternationalFlight.java
Intersection_Of_TwoArrays.java
Jarvis_Program_Using_Switchcase.java
Java collect.java
Java_password_generator.java
Java-collection.java
javaCalculator.java
jcalendar-1.4.jar
Kadanes_Algorithm.java
Knapsack_algo.java
Lexico_String.java
Library Catalog System.java
Library Management.java
LibraryManagement.java
Linearsearch.java
loading-annimation.java
LoginPage.class
LoginPage.java
longestpalindrome.java
Main.class
main.py
Matrix_add.java
matrix_multiplication.java
Median_of_Two_Sorted_Arrays.java
MedicalStore.java
Merge_Sort.java
Merge_Two_Sorted_Linked_List.java
middleNodeLL.java
mineswepper game.java
monthDays3524.java
MonthlyQuarterlySalesReport.java
mouse1.class

mouse2.class
mouse3.class
Multithread.java
Multithreading.java
N-Queen.java
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NotRandom.java
Nqueen.java
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Online_Exam_System.java
OnlineJavaTest.java
OpenWeatherMap.java
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Password Manager.java
PasswordUtil.java
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PrintTicket1.class
PrintTicket1.java
Project.java
puzzle_awt.java
puzzleGame.java
qr code generator.java
QuizApp.java
Radix Sorting Algo.java

RandomClass.java
randomPasswordGenerator.java
rectangle.java
recursiveFactorial.java
Reverse_Linked_List.java
ReverseLinkedList.java
ReverseWords.java
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RockPaperScissor.js
RockpaperScissorgame.java
Save1.class
Save2.class
Scientific_Calculator.java
script.js
Serialization.java
ShipingCostCalculator.java
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SortingAlgos.java
space-invader-game.java
Sparse_Array.java
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stockPortfolioTracker.java
StringArray.java
Student Management System.java
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Subarray.java
SudokuPuzzle.java
SudokuSolver.java
sum.java
swingIpFInder.java
Task List Application.java
Temp3524.java

terminal_bar_graph.java
textEditor.java
Thermometer.java
tik tak toe.java
todoapp.java
TopologicalSortGraph.java
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Travelling Salesman Problem.java
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triangle.java
TwoChessBoard.py
UniqueElementsFinder.java
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UrlShortener.java
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UseCustomTurtleFunctions.py
Verbalize3524.java
Weather.py
Web_Page_Source_Viewer.java
WidgetsDemo.py
WiggleSort.java
WindowUtilities.class
WindowUtilities.java
wordcounter.java
Zigzag_Conversion.java