



Java Exercises – Basic to Advanced Java Practice Programs with Solutions

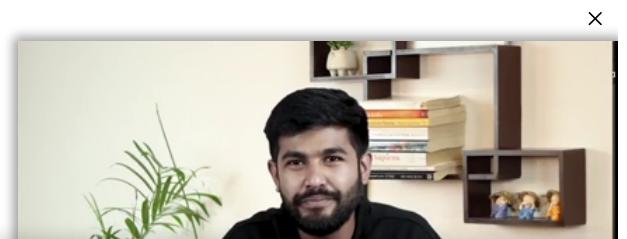
Last Updated : 18 Apr, 2024

Test your Java skills with our topic-wise Java exercises. As we know Java is one of the most popular languages because of its robust and secure nature. But, programmers often find it difficult to find a platform for Java Practice Online. In this article, we have provided Java Practice Programs. That covers various Java Core Topics that can help users with Java Practice.

Take a look at our free **Java Exercises** to practice and develop your Java programming skills. Our Java programming exercises Practice Questions from all the major topics like loops, object-oriented programming, exception handling, and many more.

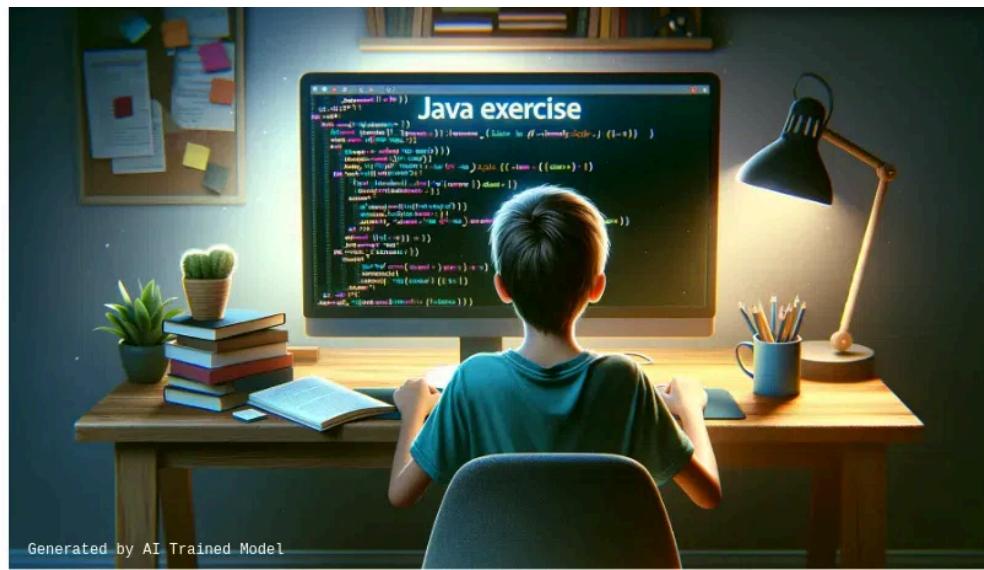
List of Java Exercises

- [Pattern Programs in Java](#)
- [Array Programs in Java](#)
- [String Programs in Java](#)
- [Java Practice Problems for Searching Algorithms](#)
- [Practice Problems in Java Sorting Algorithms](#)
- [Practice More Java Problems](#)



We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

Got It !



Generated by AI Trained Model

Java Practice Programs

This Java exercise is designed to deepen your understanding and refine your Java coding skills, these programs offer hands-on experience in solving real-world problems, reinforcing key concepts, and mastering Java programming fundamentals. Whether you're a beginner who looking to build a solid foundation or a professional developer aiming to sharpen your expertise, our Java practice programs provide an invaluable opportunity to sharpen your craft and excel in [Java programming language](#).



We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

1. Write Hello World Program in Java

The solution to the Problem is mentioned below:

Java

```
// Java Program to Print
// Hello World
import java.io.*;

// Driver Class
class GFG {
    // main function
    public static void main(String[] args)
    {
        // Printing Hello World
        System.out.println("Hello World!");
    }
}
```



Output

Hello World!

2. Write a Program in Java to Add two Numbers.

Input: 2 3

Output: 5

[Click Here for the Solution](#)

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

Input: a=2 b=5

Output: a=5 b=2

[Click Here for the Solution](#)

4. Write a Java Program to convert Integer numbers and Binary numbers.

Input: 9

Output: 1001

[Click Here for the Solution](#)

5. Write a Program to Find Factorial of a Number in Java.

Input: 5

Output: 120

[Click Here for the Solution](#)

6. Write a Java Program to Add two Complex Numbers.

Input: 1+2i

4+5i

Output: 5+7i

[Click Here for the Solution](#)

7. Write a Program to Calculate Simple Interest in Java

Input : P = 10000 R = 5 T = 5

Output : 2500

[Click Here for the Solution](#)

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

Input : N = 5

Output:

```

    1
   1   1
  1   2   1
 1   3   3   1
1   4   6   4   1
1   5   10  10  5   1

```

[Click Here for the Solution](#)

9. Write a Program to Find Sum of Fibonacci Series Number

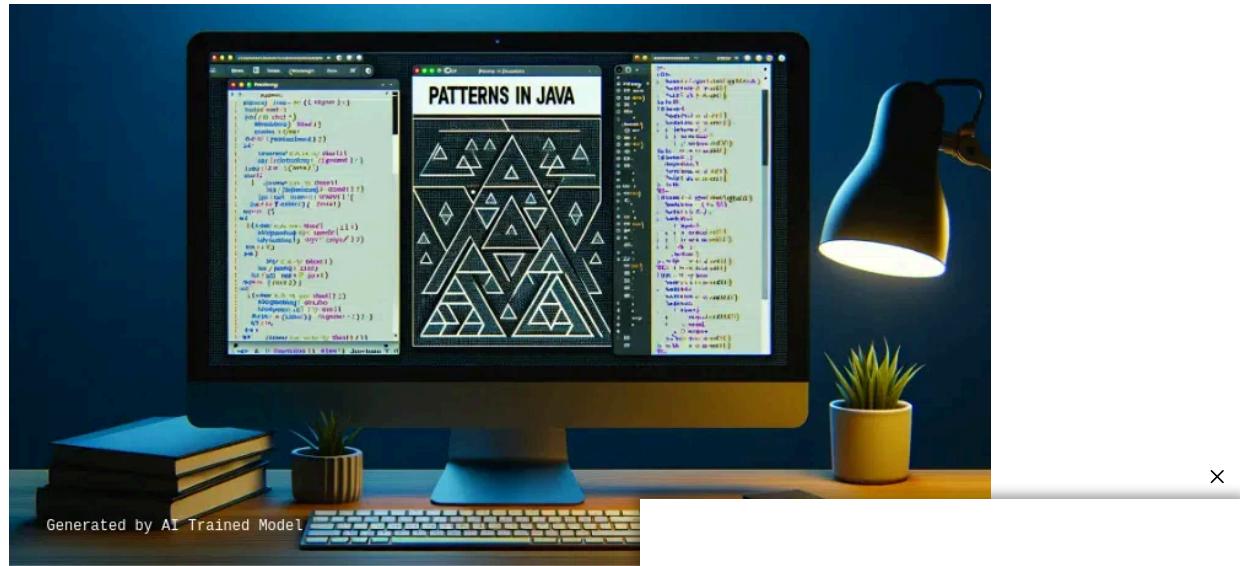
Input: n = 4

Output: 33

Explanation: Sum of numbers at even indexes = 0 + 1 + 3 + 8 + 21 = 33.

[Click Here for the Solution](#)

Pattern Programs in Java



10. Write a Program to Print Pyramid Number

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

[Click Here for the Solution](#)

11. Write a Java Program to Print Pattern.

```
* * * * *  
* *  
* *  
* *  
* *  
* * * * *
```

[Click Here for the Solution](#)

12. Write a Java Program to Print Pattern.

```
1  
2 1 2  
3 2 1 2 3  
4 3 2 1 2 3 4  
5 4 3 2 1 2 3 4 5  
6 5 4 3 2 1 2 3 4 5 6
```

[Click Here for the Solution](#)

13. Java Program to Print Patterns.

```
*
```

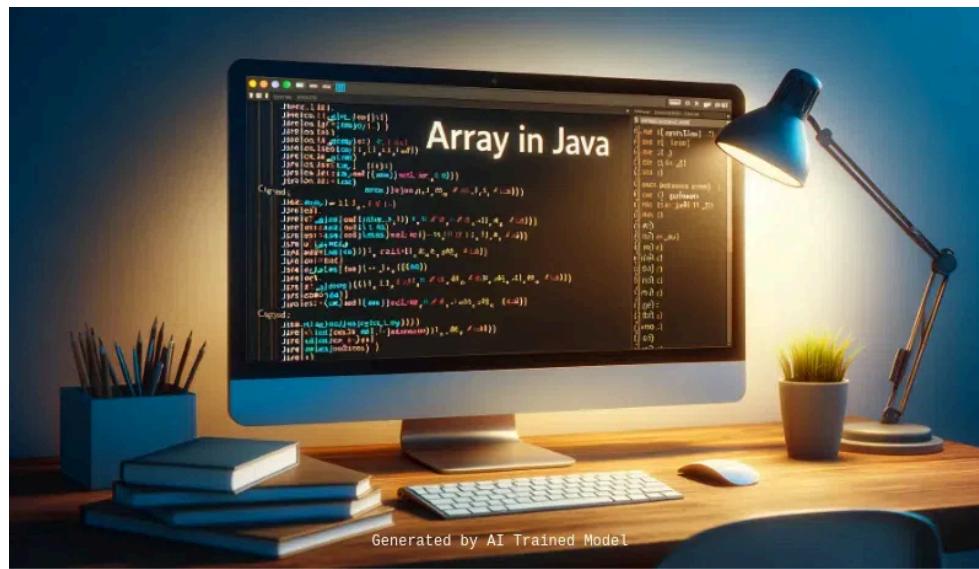
X

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

*

[Click Here for the Solution](#)

Array Programs in Java



Generated by AI Trained Model

14. Write a Java Program to Compute the Sum of Array Elements.

Input: [2, 4, 6, 7, 9]

Output: 28

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

15. Write a Java Program to Find the Largest Element in Array

Input: [7, 2, 5, 1, 4]

Output: 7

[Click Here for the Solution](#)

16. Write Java Program to Find the Tranpose of Matrix

Input:

```
[ [ 1, 2, 3 ]  
[ 4, 5, 6 ]  
[ 7, 8, 9 ] ]
```

Output:

```
[ [ 1, 4, 7]  
[ 2, 5, 8]  
[ 3, 6, 9] ]
```

[Click Here for the Solution](#)

17. Java Array Program For Array Rotation

Input: arr[] = {1, 2, 3, 4, 5, 6, 7}, d = 2

Output: 3 4 5 6 7 1 2

Explanation: d=2 so 2 elements are rotated to the end of the array. So,

1 2 is rotated back

So, Final result: 3, 4, 5, 6, 7, 1, 2

[Click Here for the Solution](#)

18. Java Array Program to Remove Duplicate E

Input: [1, 2, 2, 3, 3, 3, 4, 5]

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

[Click Here for the Solution](#)

19. Java Array Program to Remove All Occurrences of an Element in an Array

Input: array = [1, 2, 1, 3, 5, 1] , key = 1

Output: [2, 3, 5]

Explanation: all the occurrences of element 1 is removed from the array

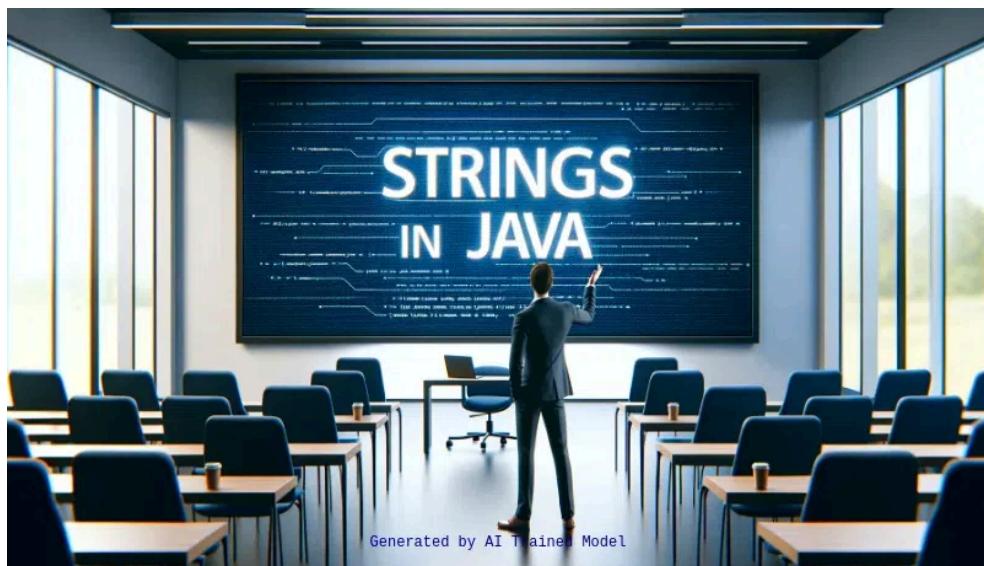
So, array becomes from

[1, 2, 1, 3, 5, 1] to

Final result: [2, 3, 5]

[Click Here for the Solution](#)

String Programs in Java



20. Java program to check whether a string is a Palindrome

Input: "racecar"

Output: Yes

Explanation: As racecar after reversing becomes caracer. String is same as String so it is Palindrome

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

21. Java String Program to Check Anagram

Input: str1 = "Silent"
 str2 ="Listen"
Output: Strings are Anagram

Explanation: As all the elements in str1 are exact same as to create str2 .

i.e., we can create str2 using elements of str1 without removing any element or removing any extra element.

[Click Here for the Solution](#)

22. Java String Program to Reverse a String

Input: str= "Geeks"
Output: "skeeG"

[Click Here for the Solution](#)

23. Java String Program to Remove leading zeros

Input : 00000123569
Output : 123569

[Click Here for the Solution](#)

Java Practice Problems for Searching Algorithms



24. Write a Java Program for Linear Search.

Time Complexity: $O(N)$

Space Complexity: $O(N)$

[Click Here for the Solution](#)

25. Write a Binary Search Program in Java.

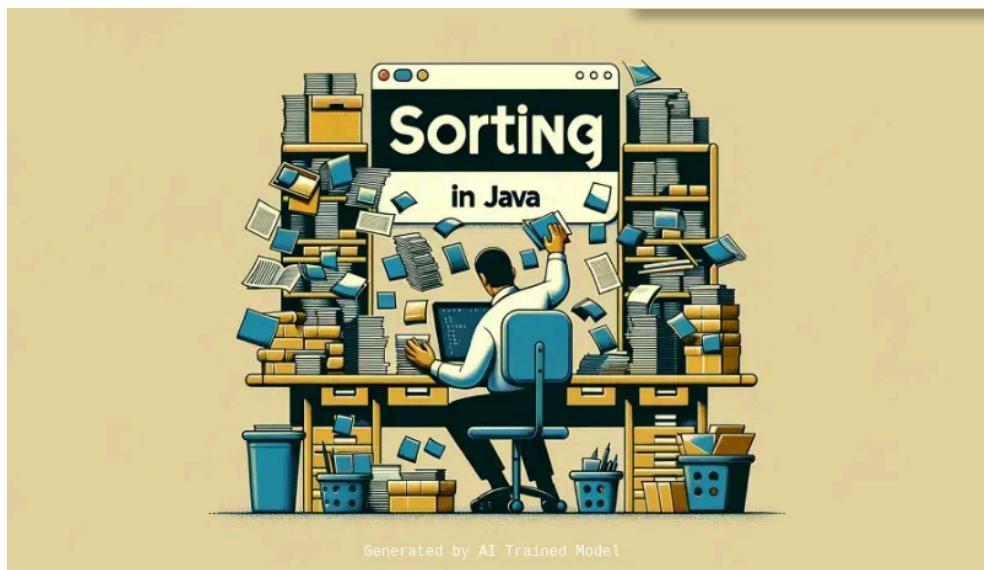
Time Complexity: $O(\log N)$

Space Complexity: $O(N)$

[Click Here for the Solution](#)

Practice Problems in Java Sorting Algorithms

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).



Generated by AI Trained Model

26. Java Program for Bubble Sort.

Time Complexity: $O(N^2)$

Space Complexity: $O(1)$

[Click Here for the Solution](#)

x

27. Write a Program for Insertion Sort in Java.

Time Complexity: $O(N^2)$

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

Space Complexity: $O(1)$

[Click Here for the Solution](#)

28. Java Program for Selection Sort.

Time Complexity: $O(N^2)$

Space Complexity: $O(1)$

[Click Here for the Solution](#)

29. Java Program for Merge Sort.

Time Complexity: $O(N \log N)$

Space Complexity: $O(N)$

[Click Here for the Solution](#)

30. Java Program for QuickSort.

Time Complexity: $O(N \log N)$

Space Complexity: $O(1)$

[Click Here for the Solution](#)

Conclusion

After completing these Java exercises you are
an advanced Java programmer. We hope these

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

understand Java better and you can solve beginner to advanced-level questions on Java programming.

Solving these [Java programming](#) exercise questions will not only help you master theory concepts but also grasp their practical applications, which is very useful in job interviews.

More Java Practice Exercises

- [Java Array Exercise](#)
- [Java String Exercise](#)
- [Java Collection Exercise](#)

[To Practice Java Online please check our Practice Portal.](#) <- Click Here

FAQ in Java Exercise

1. How to do Java projects for beginners?

To do Java projects you need to know the fundamentals of Java programming. Then you need to select the desired Java project you want to work on. Plan and execute the code to finish the project. Some beginner-level Java projects include:

- *Reversing a String*
- *Number Guessing Game*
- *Creating a Calculator*
- *Simple Banking Application*
- *Basic Android Application*

2. Is Java easy for beginners?

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

beginner, you can learn beginner to advanced Java in 6 to 18 months.

3. Why Java is used?

Java provides many advantages and uses, some of which are:

- *Platform-independent*
- *Robust and secure*
- *Object-oriented*
- *Popular & in-demand*
- *Vast ecosystem*

Feeling lost in the vast world of Backend Development? It's time for a change!

Join our [Java Backend Development - Live Course](#) and embark on an exciting journey to master backend development efficiently and on schedule.

What We Offer:

- Comprehensive Course
- Expert Guidance for Efficient Learning
- Hands-on Experience with Real-world Projects
- Proven Track Record with 100,000+ Successful Geeks

8

[Suggest improvement](#)

Next

x

Java Ex

P

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

Share your thoughts in the comments

Add Your Comment

Similar Reads

[Java OpenCV Programs - Basic to Advanced](#)

[Java Networking Programs - Basic to Advanced](#)

[Java Threading Programs - Basic to Advanced](#)

[Java Apache POI Programs - Basic to Advanced](#)

[Java Directories Programs: Basic to Advanced](#)

[Java Collection Programs - Basic to Advanced](#)

[Java JDBC Programs - Basic to Advanced](#)

[Java Regex Programs - Basic to Advanced](#)

[Difference between Core Java and Advanced Java](#)

[Output of Java Programs | Set 55 \(Java Collections Framework\)](#)



GeeksforGeeks

Article Tags : [Java-Arrays](#) , [java-basics](#) , [Java-Data Types](#) , [Java-Functions](#) , [Java-I/O](#) , [Java-Library](#) , [Java-Object Oriented](#) , [Java-Output](#) , [Java-Strings](#) , [Output of Java Program](#) , [Java](#) , [Java Programs](#)

Practice Tags : [Java](#), [Java-Strings](#)

x

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

Ad removed.

[Show details](#)



A-143, 9th Floor, Sovereign Corporate Tower, Sector-136, Noida, Uttar Pradesh - 201305



Company

- [About Us](#)
- [Legal](#)
- [Careers](#)
- [In Media](#)
- [Contact Us](#)
- [Advertise with us](#)
- [GFG Corporate Solution](#)
- [Placement Training Program](#)

Explore

- [Hack-A-Thons](#)
- [GfG Weekly Contest](#)
- [DSA in JAVA/C++](#)
- [Master System Design](#)
- [Master CP](#)
- [GeeksforGeeks Videos](#)
- [Geeks Community](#)

Languages

- [Python](#)
- [Java](#)
- [C++](#)

DSA

x

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

SQL	Top 100 DSA Interview Problems
R Language	DSA Roadmap by Sandeep Jain
Android Tutorial	All Cheat Sheets
Tutorials Archive	

Data Science & ML

- [Data Science With Python](#)
- [Data Science For Beginner](#)
- [Machine Learning Tutorial](#)
- [ML Maths](#)
- [Data Visualisation Tutorial](#)
- [Pandas Tutorial](#)
- [NumPy Tutorial](#)
- [NLP Tutorial](#)
- [Deep Learning Tutorial](#)

HTML & CSS

- [HTML](#)
- [CSS](#)
- [Web Templates](#)
- [CSS Frameworks](#)
- [Bootstrap](#)
- [Tailwind CSS](#)
- [SASS](#)
- [LESS](#)
- [Web Design](#)
- [Django Tutorial](#)

Python Tutorial

- [Python Programming Examples](#)
- [Python Projects](#)
- [Python Tkinter](#)
- [Web Scraping](#)
- [OpenCV Tutorial](#)
- [Python Interview Question](#)

Computer Science

- [Operating Systems](#)
- [Computer Network](#)
- [Database Management System](#)
- [Software Engineering](#)
- [Digital Logic Design](#)
- [Engineering Maths](#)

DevOps

- [Git](#)
- [AWS](#)
- [Docker](#)
- [Kubernetes](#)
- [Azure](#)
- [GCP](#)
- [DevOps Roadmap](#)

Competitive Programming

- [Top DS or Algo for CP](#)
- [Top 50 Tree](#)
- [Top 50 Graph](#)

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

High Level Design	JavaScript Examples
Low Level Design	TypeScript
UML Diagrams	ReactJS
Interview Guide	NextJS
Design Patterns	AngularJS
OOAD	NodeJS
System Design Bootcamp	Lodash
Interview Questions	Web Browser

Preparation Corner

Company-Wise Recruitment Process
 Resume Templates
 Aptitude Preparation
 Puzzles

Company-Wise Preparation

School Subjects

Mathematics
 Physics
 Chemistry
 Biology
 Social Science
 English Grammar
 World GK

Management & Finance

Management
 HR Management
 Finance
 Income Tax
 Organisational Behaviour
 Marketing

Free Online Tools

Typing Test
 Image Editor
 Code Formatters
 Code Converters
 Currency Converter
 Random Number Generator
 Random Password Generator

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).

More Tutorials

Software Development	DSA
Software Testing	Python
Product Management	Java
SAP	C++
SEO - Search Engine Optimization	Data Science
Linux	CS Subjects
Excel	

GeeksforGeeks Videos

@GeeksforGeeks, Sanchhaya Education Private Limited, All rights reserved

X

We use cookies to ensure you have the best browsing experience on our website. By using our site, you acknowledge that you have read and understood our [Cookie Policy](#) & [Privacy Policy](#).