

Programming with Java

Exercise #1

Setting up the Java Playground

Verify the installation of java in your PC. Also note down the version of Java Installed. If java is not installed in your PC, download and install the latest version of JDK. (Setup is also available at \\dcaserver\Software\2023_ODD\SYBCA\DIV B\Java\Softwares)

In case of fresh installation of Java, also set the environment variable.

Copy the npp.8.5.4.portable.x64.zip file into your PC (Available at \\dcaserver\Software\2023_ODD\SYBCA\DIV B\Java\Softwares), extract it and launch notepad++.exe to launch Notepad++ in your PC.

Now your Playground for the Writing Code in Java is set.

Basic Programs

1. Write a program to print “Welcome to Java Programming”.
2. Write a program to that uses print() and println().
3. Write a program to calculate Simple Interest.
4. Write a program to calculate area of a square.
5. Write a program to calculate the area of a circle.
6. Write a program to swap two numbers by taking a temp variable.
7. Write a program to swap two numbers without a temp variable.
8. Write a program to calculate the BMI of a person. Hint: $BMI = \text{weight (KG)} / \text{height}^2$ (meter).
9. Write a program to calculate product of two integer numbers without using * operator.
10. Write a program to print the value of 2 to the power 10.
11. Write a program to print the default values of all the available data types.
12. Check a no. is even/odd using ternary operator.

Decision Control Constructs

13. Write a program to check the divisibility of a number by 7.
14. Write a program to check the even/odd.

15. Write a program to check +ve, -ve, zero.
16. Write a program to print the name of the day on the basis of numbers 1 – 7 using if-else-if ladder.
17. Write a program to print the name of the month on the basis of numbers 1 – 12 using Switch Case statement.
18. Write a program to find whether a year is leap or not.
19. Write a program to find the maximum of three numbers
20. Write a program to find greatest and least of 3 numbers.

Looping Control Constructs

21. Write your name on screen 10 times.
22. Write a program to print numbers 1-20 using for loop.
23. Write a program to print numbers 10-1 using for loop.
24. Write a program to calculate sum of n natural numbers.
25. Write a program to print 1-10 using while loop.
26. Write a program to calculate the factorial of a number.
27. Write a program to calculate Simple Interest for all the rate of interest between 1% - 10 %.
28. Write a program to print 1-10 skipping 7 and 8 using continue
29. Write a program to print 1-5 only using break. (Loop goes from 1 – 10).
30. Write a program to print the following values
1 1
1 2
1 3
2 1
3 1
3 2
3 3