Programming with Java

Exercise #1

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 varibale.
8. Write a program to calculate the BMI of a person. Hint: BMI = weight (KG)/ 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