Java Assignment 1

Submission Date: 9-Jan-2025 till 12:00 PM

Note: Create a folder, named as "Java Assignment-1". Create a word document for this assignment. Copy and paste your program with output in this word document. Along with this word doc, you have to send .java file for all the program. Store this word doc and programs in the folder Java Assignment-1, zip it and upload it.

1. Why Java is considered as platform independent language.
2. Explain features of Java.
3. Explain the following terms in Java along with example:
    i. Keyword
    ii. Identifier
    iii. Literals
4. Explain operator precedence and associativity.
5. Illustrate the precedence of different operators in Java with the help of a chart.
6. Explain primitive data types in java along with their size, range and default values.
7. WAP to demonstrate how to create variables of different types.
8. Explain implicit type conversion, explicit type conversion and type promotion in Java.
9. WAP to demonstrate explicit type conversion.
10. WAP to demonstrate implicit type conversion.
11. Explain arithmetic operators in java.
12. WAP to demonstrate arithmetic operators in java.
13. WAP to demonstrate increment (pre and post) and decrement (pre and post) operators.
14. WAP to demonstrate compound assignment operator.
15. Explain relational operators in java.
16. WAP to demonstrate relational operators in java.

17.   Explain logical operators in Java.
18.   WAP to demonstrate logical operators in java.
19.   Explain short circuit operators in Java.
20.   WAP to demonstrate short circuit operators.
21.   Explain conditional operator along with syntax and example.
22.   WAP to find greater of two numbers using conditional operator.
23.   Explain conditional statements (if, if else, nested if else, else if ladder, switch case)
24.   WAP to find greater of two numbers using if else statement.
25.   WAP to find whether the inputted number is even or odd.
26.   WAP to find greatest among three numbers using if else.
27.   Explain how to use Scanner class for user input. Discuss different methods for taking user input of Scanner class. WAP to demonstrate it.
28.   Write a Java Program Find out Students Grades using Switch Case

Score in subject	Grade
>=90	A
80-89	B
70-79	C
60-69	D
50-59	E
<50	F

29.   WAP to check whether the inputted character is Vowel or Consonant