Homework

The following homework is designed to cover the course objectives for this unit.

Homework Exercise 1.1

- Research the ITT Tech Virtual Library to find the differences between Java and C++ and between Java and .NET.
- Present your findings in the form of a report comparing and listing the features of Java and C++ and Java and .NET.
- Cite your sources using Chicago Manual of Style.
- Submit your report in a Word document to your instructor at the beginning of Unit 2.

Homework Exercise 1.2

Submit your written answers to the following 25 questions to your instructor at the beginning of Unit 2.

1. Which of the following JDK commands is correct to run a Java application in ByteCode.class?

    a. JAVAC ByteCode
    b. javac ByteCode.java
    c. javac ByteCode
    d. java ByteCode.class
    e. java ByteCode

2. Which of the following statements are correct to display "Welcome to Java" on the console? (Select all that apply.)

    a. System.out.println('Welcome to Java');
    b. System.out.print('Welcome to Java');
    c. System.println('Welcome to Java');
    d. System.out.print("Welcome to Java");
    e. System.out.println("Welcome to Java");

3. Every statement in Java ends with _____.

    a. a comma (,)
    b. a semicolon (;)
    c. an asterisk (*)
    d. a period (.)

4. The _____ method terminates a Java program.

    a. System.exit(0);
    b. System.halt(0);
    c. System.stop(0);
    d. System.terminate(0);

5. The Java compiler translates Java source code into _____.

    a. machine code
    b. another high-level language code
    c. assembly code
    d. Java bytecode

6. Which of the following lines are *not* Java comments? (Select all that apply.)

    a. -- comments
    b. /* comments */
    c. ** comments **
    d. /** comments */
    e. // comments

7. The main method header is written as:

    a. public static void main(String[] args)
    b. public void main(String[] args)
    c. public static void Main(String[] args)
    d. public static main(String[] args)
    e. public static void main(string[] args)

8. To assign a double variable d to a float variable x, you write:

    a. x = (long)d
    b. x = d;
    c. x = (int)d;
    d. x = (float)d;

9. Which of the following expressions results in a value 1?

    a. 15 % 4
    b. 2 % 1
    c. 37 % 6
    d. 25 % 5

10. To add number to sum, you write: (Select all that apply.)
    (Hint: Java is case-sensitive.)

    a. number = sum + number;
    b. sum = sum + number;
    c. sum = Number + sum;
    d. number += sum;
    e. sum += number;

11. What is the result of 45 / 4?

    a. 11
    b. 12
    c. 10
    d. 11.25

12. If you attempt to add an int, a byte, a long, and a double, the result will be a
    _____ value.

    a. double
    b. int
    c. long
    d. byte

13. The _____ method parses a string s to an int value.

    a. integer.parseInteger(s);
    b. integer.parseInt(s);
    c. Integer.parseInteger(s);
    d. Integer.parseInt(s);

14. Assume i is an int type variable. Which of the following statements displays the
    character whose Unicode is stored in variable i?

    a. System.out.println(i + " ");
    b. System.out.println(i);
    c. System.out.println((int)i);
    d. System.out.println((char)i);

15. –24 % –5 is _____

    a. 4
    b. 3
    c. –3
    d. –4
    e. 0

16. What is the value of (double)5/2?

    a. 2.5;
    b. 3.0;
    c. 3;
    d. 2;
    e. 2.0;

17. To assign a value 1 to variable x, you write:

    a. x := 1;
    b. 1 = x;
    c. x = 1;
    d. x == 1;
    e. 1 := x;

18. The _____ method parses a string s to a double value.

    a. double.parseDouble(s);
    b. Double.parsedouble(s);
    c. double.parse(s);
    d. Double.parseDouble(s);

19. The Java assignment operator is _____.

    a. =
    b. =:
    c. :=
    d. ==

20. Which of the following assignment statements is correct?

    a. char c = "d";
    b. char c = 'd';
    c. char c = "100";
    d. char c = 100;

21. Which of the following are valid identifiers? (Select all that apply.)

    a. 8+9
    b. class
    c. radius
    d. $343
    e. 9X

22. To declare an int variable number with initial value 2, you write:

    a. int number = 2.0;
    b. int number = 2L;
    c. int number = 2l;
    d. int number = 2;

23. Which of the following assignment statements are ***incorrect***? (Select all that apply.)

    a. i = j = k = 1;
    b. i = 1; j = 1; k = 1;
    c. i == j == k == 1;
    d. i = 1 = j = 1 = k = 1;

24. Which of the following are the correct ways of declaring variables? (Select all that apply.)

    a. int length, width;
    b. int length, int width;
    c. int length; width;
    d. int length; int width;

25. The expression "Java " + 1 + 2 + 3 evaluates to _____.

    a. Java6
    b. java 123
    c. Java123
    d. Illegal expression
    e. Java 123