### **Chapter 2 Introduction to Java Applications**

## Section 2.2 Your First Program in Java: Printing a Line of Text

```
2.2 Q1: End-of-line comments that should be ignored by the compiler are denoted using
a. Two forward slashes ( // ).
b. Three forward slashes ( /// ).
c. A slash and a star (/*).
d. A slash and two stars ( /** ).
ANS: a. Two forward slashes ( // ).
2.2 Q2: Which of the following is not a valid Java identifier?
a. my Value
b. $ AAA1
c. width
d. m_x
ANS: a. my Value (Identifiers may not contain blanks).
2.2 Q3: Which of the following cannot cause a syntax error to be reported by the Java compiler?
a. Mismatched {}
b. Missing */ in a comment that begins with /*
c. Missing;
d. An extra blank line.
ANS: d. An extra blank line.
2.2 Q4: Which of the following does not contain a syntax error?
a. System.out.println( 'Hello world!' ):
b. System.out.println( "Hello
               world!" );
c. System.out.println( "Hello world!" );
d. System.out.println( Hello world! );
ANS: c. System.out.println( "Hello world!" );
Compiling and Executing Your First Java Application
2.2 Q5: Which command compiles the Java source code file Welcome.java?
a. cd Welcome.java
b. javac Welcome.java
c. java Welcome.java
d. compile Welcome.java
ANS: b. javac Welcome.java
2.2 Q6: Which command executes the Java class file Welcome.class?
a. java welcome
b. java Welcome.class
c. java Welcome
d. run Welcome.class
ANS: c. java Welcome (Note that you must use the same capitalization as the class name.)
```

# Section 2.3 Modifying Your First Java Program

Displaying a Single Line of Text with Multiple Statements

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```
2.3 Q1: Which is the output of the following statements?
          System.out.print( "Hello ");
          System.out.println( "World" );
a. Hello World
b. HelloWorld
c. Hello
    World
d. World
    Hello
ANS: a. Hello World
Displaying Multiple Lines of Text with a Single Statement
2.3 Q2: Which of the following is the escape character?
a. *
b. \
c. \n
d. "
ANS: b. \
2.3 Q3: Which of the following statements will print a single line containing
"hello there"?
a. System.out.println( "hello" );
   System.out.println( " there" );
b. System.out.println( "hello" ,  " there" );
c. System.out.println( "hello" );
   System.out.print( " there" );
d. System.out.print( "hello" );
     System.out.println( " there" );
2.3 Q4: Which of the following escape sequences represents a carriage return?
a. \n.
b. \r.
c. \cr.
d. \c.
ANS: b. \r.
2.3 Q5: Which of the following statements would display the phase Java is fun?
a. System.out.println( "hellois fun\rJava " );
b. System.out.println( 'Java is fun' );
c. System.out.println( "\"Java is fun\"" );
d. System.out.println( Java is fun );
ANS: a. System.out.println( "hellois fun\rJava " );
Section 2.4 Displaying Text with printf
2.4 Q1: When method printf requires multiple arguments, the arguments are separated with
a. colons (:).
b. semicolons (;).
c. commas (,).
d. periods (.).
ANS: c. commas (,).
2.4 Q2: Which of the following statement displays Hello World?
```

```
a. System.out.printf( "%2s", "Hello " "World" );
b. System.out.printf( "%s %s", "Hello", "World" );
c. System.out.printf( "%s%s", "Hello, World" );
d. System.out.printf( "s% s%", "Hello", "World" );
ANS: b. System.out.printf( "%s %s", "Hello", "World" );
```

## **Section 2.5 Another Application: Adding Integers**

- 2.5 Q1: Programs remember numbers and other data in the computer's memory and access that data through program elements called
- a. comments.
- b. messages.
- c. integers.
- d. variables.

ANS: d. variables.

#### **Section 2.5.1 import Declarations**

- 2.5.1 Q1: All import declarations *must* be placed
- a. inside the class declaration's body.
- b. before the class declaration.
- c. after the class declaration.
- d. all of the above will work.

ANS: b. before the class declaration.

- 2.5.1 Q2: Java's predefined classes are grouped into
- a. packets.
- b. declarations.
- c. Galleries.
- d. packages.

ANS: d. packages.

# **Section 2.5.2 Declaring Class Addition**

2.5.	2 Q1: The filename for the public class that begins with public class Addition must b
a.	public.java.
b.	public.class.java.
c.	Addition.java.
d.	addition.java.
AN	S: c. Addition.java.
2.5.	2 Q2 The body of each class declaration begins with and ends with
e.	(, ).
f.	[,].
g.	<i>{</i> , <i>}</i> .
h.	/, \.
AN	S: g. {, }.

# Section 2.5.3 Declaring and Creating a Scanner to Obtain User Input from the Keyboard

2.5.	.3 Q1: Which of the following is a variable declaration statement?
a.	<pre>int total;</pre>
b.	<pre>import java.util.Scanner;</pre>
c.	<pre>public static void main( String args[] )</pre>
d.	// first string entered by user
AN	S: a.int total;
25	.3 Q2: A(n) enables a program to read data from the user
	printf.
	import declaration.
	Scanner

# **Section 2.5.4 Declaring Variables to Store Integers**

2.5.4 Q1: Which of the following is *not* a Java primitive type?

a. char

d. main.

ANS: c. Scanner.

- b. byte
- c. real
- d. double

ANS: c. real

- 2.5.4 Q2: Which of the following statements is *false*?
- a. Primitive types are keywords.
- b. Primitive types must appear in all lowercase letters.
- c. Real numbers contain decimal points.
- d. Variable name identifiers must begin with a lowercase letter.

ANS: d. Variable name identifiers must begin with a lowercase letter. This is not required, but it is a convention.

# Section 2.5.5 Prompting the User for Input

2.5.5 Q1: Which of the following statements is *true*?

- a. System.out.print("Enter your age: "); prompts the user to take action.
- b. Class names typically begin with a capital letter.
- c. Package java.lang is imported in every Java program.
- d. All of the above are true.

ANS: d. All of the above are true.

# Section 2.5.6 Obtaining an int as Input from the User

2.5.6 Q1: Which of the following is a Scanner method for inputting an integer value?

- a. nextInteger
- b. integer
- c. nextInt
- d. int

ANS: c. nextInt.

```
number1 = input.nextInt();
```

in which number1 is an int and input is a Scanner, which of the following occurs if the user does not enter a valid int value?

- a. A compilation error occurs.
- b. The program continues executing and assigns the value 0 to number1.
- c. A runtime logic error occurs.
- d. None of the above.

ANS: c. A runtime logic error occurs.

### Section 2.5.7 Prompting for and Inputting a Second int

(no questions; uses the same concepts as Sections 2.5.5 and 2.5.6)

### Section 2.5.8 Using Variables in a Calculation

2.5.8 O1: Portions of statements that contain calculations are called

- a. variables.
- b. constants.
- c. expressions.
- d. None of the above.

ANS: c. expressions.

2.5.8 Q2: Given the Java statement

```
sum = number1 + number2;
```

which of the following statements is *false*?

- a. It's an assignment statement.
- b. It calculates the sum of variables number1 and number2.
- c. The operands of the addition operator are number1 and number2.
- d. It assigns the value of number1 to sum.

ANS: d. It assigns the value of number1 to sum. Actually, it assigns the total of number1 and number2 to sum.

# Section 2.5.9 Displaying the Result of the Calculation

2.5.	9 Q1: The format specifier _	is a p	laceholder	for an i	nt valı	ıe.
a.	%n					
I-	0/ 1					

b. %d

- 0/± ...

c. %int

d. %s **ANS: b. %d** 

2.5.9 Q2: Optional parentheses in expressions are said to be

- a. redundant.
- b. binary operators.
- c. implied.
- d. declared.

ANS: a. redundant.

#### Section 2.5.10 Java API Documentation

## (none)

# **Section 2.6 Memory Concepts**

```
2.6 Q1: Which of the following statements does not alter the value stored in a memory location?
a. int a;
b. number = 12;
c. y = y + 2;
d. width = Integer.parseInt(input);
ANS: a. int a;
```

#### **Section 2.7 Arithmetic**

2.7 Q1: What is the value of result after the following Java statements execute (assume all variables are of type int)?

```
a = 4;
b = 12;
c = 37;
d = 51;
result = d % a * c + a % b + a;
a. 119
b. 51
c. 127
d. 59
ANS: a. 119

2.7 Q2: Which of the following is not an arithmetic operator?
a. +
b. -
c. .
d. %
ANS: c. .
```

# Section 2.8 Decision Making: Equality and Relational Operators

2.8 Q1: What will be output after the following Java statements have been executed (assume all variables are of type int)?

```
a = 4;
b = 12;
c = 37;
d = 51;
if ( a < b )
    System.out.println( "a < b" );
if ( a > b )
    System.out.println( "a > b" );
```

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```
if ( d <= c )
          System.out.println( "d <= c" );</pre>
       if ( c != d )
          System.out.println( "c != d" );
a. a < b
   c != d
b. a < b
   d <= c
   c != d
c. a > b
   c != d
d. a < b
   c < d
   a != b
ANS: a.a < b
       c != d
```

- 2.8 Q2: Which of the following is *not* a compilation error?
- a. Neglecting to initialize a local variable in a method before it is used.
- b. Placing a semicolon at the end of the first line of an if statement.
- c. Omitting the left and right parenthesis for the condition of an if statement.
- d. All are compilation errors.

ANS: b. Placing a semicolon at the end of the first line of an if statement.

2.8 Q3: Each of the following is a relational or equality operator except:

a. <= b. =! c. == d. >

**ANS:** b. =!