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 (/**).
- e. 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. Extra blank lines.

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. javac Welcome.class
b. java Welcome.class
c. java Welcome
d. run Welcome.class
```

ANS: c. java Welcome

Section 2.3 Modifying Your First Java Program

Displaying a Single Line of Text with Multiple Statements

```
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");
ANS: 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.
```

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 " );
```

d. \c. **ANS:** b. \r.

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");

\mathbf{ANS:}\ \mathbf{b}. System.out.printf( "%s %s", "Hello", "World" );
Section 2.5 Another Application: Adding Integers
2.5 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 Q2: Which of the following is a variable declaration statement?
a. int total;
b. import java.util.Scanner;
c. public static void main( String args[] )
d. // first string entered by user
ANS: a. int total;
2.5 Q3: A(n) enables a program to read data from the user.
a. printf.
b. import declaration.
c. Scanner.
d. main.
ANS: c. Scanner.
2.5 Q4: Which of the following is not a Java primitive type?
a. char
b. byte
c. real
d. double
ANS: c. real
```

```
2.5 Q5: The format specifier _____ is a placeholder for an int value?

a. %a
b. %d
c. %int
d. %s

ANS: b. %d
```

Section 2.6 Memory Concepts

```
2.6 Q1: Which of the following statements does not alter 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?
       int a, b, c, d, result;
       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?

int a, b, c, d;
a = 4;
```

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