2.2

The program should be named checkpoint2\_1.

2.5

A semicolon

2.6

A method named main

2.8

The works of Wolfgang

include the following

The Turkish Marchand Symphony No. 40 in G minor.

2.10

Variables: little and big.

Literals: 2, 2000, "The little number is" and

"The big number is"

2.11

The value is number

2.12

99bottles is illegal because it starts with a number.

r&d is illegal because the & character is illegal.

2.13

They are not the same because one begins with an uppercase S while the other

begins with a lowercase s. Variable names are case-sensitive.

2.14

a. short

b. int

c. 22.1

2.15

6.3

1E17

2.16

Append the F suffix to the numeric literal, such as:

number = 7.4F;

2.17

true and false

2.18

a. char letter;

b. letter = 'A';

c. System.out.println(letter);

2.19

The code for ‘C’ is 67.

The code for ‘F’ is 70.

The code for ‘W’ is 87.

2.20

‘B’ is a character literal.

2.21

You cannot assign a string literal to a char variable. The statement should be:

char letter = 'Z';

2.22

Expression Value

6 + 3 \* 5 21

12 / 2 − 4 2

9 + 14 \* 2 − 6 31

5 + 19 % 3 − 1 5

(6 + 2) \* 3 24

14 / (11 − 4) 2

9 + 12 \* (8 − 3) 69

2.23

Integer division. The value 23.0 will be stored in portion.

2.24

a. x += 6;

b. amount -= 4;

c. y \*= 4;

d. total /= 27;

e. x %= 7;

2.25

a. The statement will cause an error.

b. The result of the expression basePay + bonus will be an int value. An error

will occur because an int is being assigned to a short . To fix the problem,

use a cast operator, or change the data type of the totalPay variable to int .

2.26

fvar = (float)dvar;

2.27

String city = "San Francisco";

2.28

stringLength = city.length();

2.29

oneChar = city.charAt(0);

2.30

upperCity = city.toUpperCase();

2.31

lowerCity = city.toLowerCase();

2.32

To write a single line comment you begin the comment with //. To write a

multi-line comment you begin the comment with /\* and end it with \*/. To

write a documentation comment you begin the comment with /\*\* and end it

with \*/.

2.33

Documentation comments can be read and processed by a program named

javadoc . The javadoc program can read Java source code files and generate

attractively formatted HTML documentation files. If the source code files contain

any documentation comments, the information in the comments becomes part of

the HTML documentation.

2.34

A message dialog box is used to display a message to the user. An input dialog

box is used to gather keyboard input from the user.

2.35

a. JOptionPane.showMessageDialog(null, "Greetings Earthling.");

b. str = JOptionPane.showInputDialog( "Enter a number.");

2.36

String str;

int age;

str = JOptionPane.showInputDialog("Enter your age.");

age = Integer.parseInt(str);

2.37

import javax.swing.JOptionPane;