## Chapter -2

## 2.1 Fill in the blanks in each of the following statements:

- a) A(n) <u>left brace ({)</u> begins the body of every method, and a(n) <u>right brace (})</u>. ends the body of every method.
- b) The if statement is used to make decisions.
- c) <u>//</u> begins an end-of-line comment.
- d)Space character, newlines and tabs are called white space.
- e) **Keywords** are reserved for use by Java.
- f) Java applications begin main execution at method.
- g) Methods **System.out.print, System.out.println and System.out.printf** display information in a command window.

## 2.2 State whether each of the following is true or false. If false, explain why.

a) Comments cause the computer to print the text after the // on the screen when the program executes.

Ans: False. Comments do not cause any action to be performed when the program executes. They're used to document programs and improve their readability.

- b) All variables must be given a type when they're declared. True.
- c) Java considers the variables number and NuMbEr to be identical. False. Java is case sensitive, so these variables are distinct.
- d) The remainder operator (%) can be used only with integer operands. False. The remainder operator can also be used with noninteger operands in Java.
- e) The arithmetic operators \*, /, %, + and all have the same level of precedence. False. The operators \*, / and % are higher precedence than operators + and -.

## 2.3 Write statements to accomplish each of the following tasks:

a) Declare variables c, thisIsAVariable, q76354 and number to be of type int. Ans: int c, thisIsAVariable, q76354, number;

or

int c;

int thisIsAVariable:

int q76354;

int number:

b) Prompt the user to enter an integer.

Ans: System.out.print( "Enter an integer: ");

c) Input an integer and assign the result to int variable value. Assume Scanner variable input can be used to read a value from the keyboard.

Ans: value = input.nextInt();

d) Print "This is a Java program" on one line in the command window. Use method

System.out.println.

Ans: System.out.println( "This is a Java program" );

e) Print "This is a Java program" on two lines in the command window. The first line should end with Java. Use method System.out.println.

Ans: System.out.println( "This is a Java\nprogram" );

f) Print "This is a Java program" on two lines in the command window. The first line should end with Java. Use method System.out.printf and two %s format specifiers.

Ans: System.out.printf( "%s\n%s\n", "This is a Java", "program" );

g) If the variable number is not equal to 7, display "The variable number is not equal to 7".

Ans: if ( number != 7 )

System.out.println( "The variable number is not equal to 7" );