# Chapter -2

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

a) A(n) **left brace ({)** begins the body of every method, and a(n) **right brace (})**. ends the body of every method.

b) The **if** statement is used to make decisions.

c) **//** 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:**

1. 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;

1. 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" );**