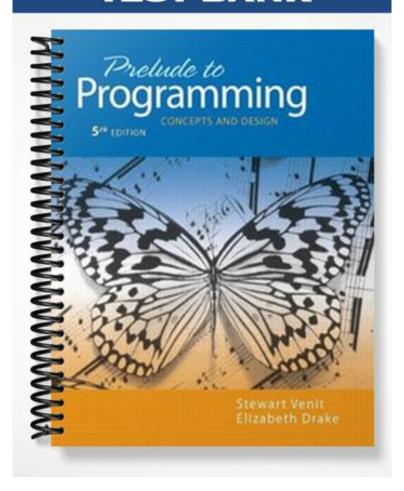
# TEST BANK



# **Test Bank for Prelude to Programming**

# Chapter 2

#### **MULTIPLE CHOICE**

- 1. In the first phase of the program development cycle you should:
- a. make a hierarchy chart
- b. identify all the variables needed
- c. identify the desired results
- d. identify appropriate test data

ANS: C

- 2. An algorithm must:
- a. include step-by-step instructions
- b. be well defined and well ordered
- c. produce some result
- d. terminate in a finite time
- e. all of the above are true

ANS: E

- 3. Which of the following is *not* part of the analysis phase of the program development cycle?
- a. determine the required output (the result)
- b. determine the required input (the data)
- c. determine the formulas needed to get the required results
- d. determine the names of all the variables to be used

ANS: D

- 4. When a programmer breaks tasks down into smaller pieces, this is called:
- a. flowcharting
- b. modular programming
- c. the program development cycle
- d. hierarchical programming

ANS: B

- 5. Which of the following are characteristics of a program module?
- a. It performs a single task
- b. It is self-contained
- c. It is relatively short
- d. any of the above

ANS: D

- 6. Which of the following is not a characteristic of a program module?
- a. it performs a single task
- b. it is self-contained and independent of other modules
- c. it is relatively short
- d. all of the above are characteristics of a program module

ANS: D

7. Given the following statements from a certain program:

Call Purchase Price module Write "Come back soon"

What statement is executed immediately after the Call statement?

- a. Write "Come back soon"
- b. The first statement in the Purchase Price module
- c. Nothing is executed; this is an illegal Call
- d. It is impossible to tell; not enough information is given

ANS: B

8. Given the following statements from a certain program:

Call Purchase Price module Write "Come back soon"

What statement is executed immediately after the last statement in the Purchase

## Price module?

- a. Write "Come back soon"
- b. The first statement in the Purchase Price module
- c. Nothing is executed; this is an illegal Call
- d. It is impossible to tell; not enough information is given

ANS: A

- 9. When a large company completes development of new software, it is tested on a wide range of computers using different peripherals. This "in-house" testing is known as:
- a. internal documentation
- b. alpha testing
- c. Windows testing
- d. beta testing

ANS: B

- 10. The two fundamental types of errors that can arise when coding a program are:
- a. logic and testing errors
- b. logic and syntax errors
- c. syntax and testing errors
- d. coding and testing errors

ANS: B

<ul> <li>11.A diagram that uses special symbols to display pictorially the flow of execution of a program or program module is a(n):</li> <li>a. hierarchy chart</li> <li>b. pseudocode listing</li> <li>c. application chart</li> <li>d. flowchart</li> </ul>
ANS: D
12. Which of the following is not a flowchart symbol? a. b.
c. d.
ANS: D
<ul> <li>a. Sequence</li> <li>b. Modularization</li> <li>c. Selection</li> <li>d. Repetition</li> </ul> ANS: B
<ul> <li>14. The type of control structure that causes a branch forward at some point, causing a portion of the program to be skipped, is:</li> <li>a. a sequential structure</li> <li>b. a repetition structure</li> <li>c. a selection structure</li> <li>d. a loop structure</li> </ul>
ANS: C
<ul> <li>15. Which control structure contains a branch back to a previous statement in the program module, which results in a block of statements that can be executed many times.</li> <li>a. a sequential structure</li> <li>b. a repetition structure</li> <li>c. a selection structure</li> <li>d. one of the above</li> </ul>
ANS: B

### TRUE/FALSE

1. True/False: External documentation consists of comments within a program that explain the code, step by step.

ANS: F

2. True/False: When a program is written by identifying tasks and subtasks and then writing modules to deal with each task, this is known as modular programming.

ANS: T

3. True/False: A Call statement transfers program control to the beginning of the submodule that is called.

ANS: T

4. True/False: Virtually every commercial program includes some form of external documentation to help customers learn to use the software.

ANS: T

5. True/False: A violation of a programming language's rules for creating valid statements is considered a logic error.

ANS: F

6. True/False: A repetition structure consists of a series of consecutive statements that are executed in the order in which they appear.

ANS: F

7. True/False: There are three basic control structures.

ANS: T

8. True/False: Loops and repetition structures are the same thing.

ANS: T

9. True/False: Variable names should be descriptive; in general, they should indicate to anyone reading the code what that variable represents.

ANS: T

10. True/False: A flowchart is a pictorial representation of the flow of a program.

ANS: T

11. True/False: If you use a flowchart to design a program, you cannot use pseudocode for the same program.

ANS: F

12. True/False: A sequential structure consists of a series of consecutive statements, executed in the order in which they appear.

ANS: T

13. True/False: Recently interactive flowcharting programs such as RAPTOR have become available.

ANS: T

<ul><li>14.True/False Structured programming is a method used to design and code programs in a systematic, organized manner.</li><li>ANS: T</li></ul>			
15.True/False: A syntax error is a violation of the programming language's rules for creating valid statements. ANS: T			
SHORT ANSWER			
1. A step-by-step method for solving a problem in a computer program is a(n)  ANS: algorithm			
2. Comments included within a program to explain parts of the code are called			
ANS: internal documentation			
3. Every program has a(n) which is where the program begins and normally ends.  ANS: main module  ANS: main module			
A visual way to keep track of a program's modules and the relationships between modules is to create a  ANS: hierarchy chart			
5. In a program, statements that are ignored (not processed) by the computer areANS: comments			
6. A programming error that results from failing to use the proper combination of statements to accomplish a certain task is a(n) error.  ANS: logic			
7. In a(n) structure, there is a branch back to a previous statement in the program module.  ANS: loop or repetition			
8. A synonym for a decision structure is a(n) structure.  ANS: selection			
<ol> <li>In a structure there is a branch forward at some point, causing a portion of the program to be skipped.</li> <li>ANS: decision structure (or selection structure)</li> </ol>			
10.The elements of a program that affect its readability and ease of use are grouped together under the general heading of  ANS: programming style			
11.Two tools used by programmers to design programs before writing actual code are and ANS: pseudocode and flowcharts			

	ition prepared for the lay person to explain how to use a particulan by a	ar piece of
13. After a program i ANS: tested	is coded, it must be	
14. Use of an incorre ANS: logic	ect formula to produce a desired result is a type ofe	error.
_	egin to analyze a problem in programming, the first thing you needlesired	ed to