Microsoft Visual Basic 2010 for Windows Web Office and Database Applications Comprehensive 1st Edition Hoisington To

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Chapter 1: Introduction to Visual Basic 2010 Programming

MULTIPLE RESPONSE

	Modified Multiple Choice		
1.	A is an input device.a. scannerb. keyboard		digital camera printer
	ANS: A, B, C PTS:	1 REF:	9
2.	An application might allow a. scanner b. mouse	c.	a digital camera video camera
	ANS: A, B, C, D PTS:	1 REF:	9
3.	A is an output device. a. mouse b. smartphone screen ANS: B, D PTS:	d.	keyboard monitor
4.	a. scanningb. retrieval	c. d.	anner that allows of that data. access use
	ANS: B, C, D PTS:	1 REF:	16
5.	Buttons for frequently used a. Open Project b. Cut	c.	_ are found on the Standard toolbar. Save Paste
	ANS: A, B, C, D PTS:	1 REF:	18

MULTIPLE CHOICE



1.	As shown in the accomp	panying figure,	the physical equipme	nt associated with a computer.

- a. computer hardware is
- b. computer software is

ANS: A PTS: 1 REF: 3

- 2. Both the program and the data must be placed in the _____ of computers like the laptop shown in the accompanying figure in order for the computer to carry out the instructions in the program.
 - a. read only memory (ROM)

c. CD-ROM

b. central processing unit (CPU)

d. random access memory (RAM)

c. computer programs are

d. computer cables are

ANS: D

PTS: 1

REF: 4



3.	Which a. 1 b. 2	item in the acc	compan	ying figure is a	storage c. d.	3
	ANS:	A	PTS:	1	REF:	3
4.	Which a. 1 b. 2	item in the acc	compan	ying figure is a	n input c. d.	3
	ANS:	В	PTS:	1	REF:	3
5.	Which a. 1 b. 2	item in the acc	compan	ying figure is a	proces c. d.	3
	ANS:	D	PTS:	1	REF:	3

- 6. In which order do most programs follow these general steps?
 - a. process data, accept input data, create output data
 - b. create output data, accept input data, process data
 - c. accept input data, process data, create output data
 - d. accept input data, create output data, process data

	ANS: C	PTS: 1	REF:	4
7.	Data is said to be a. persistent b. volatile	if it remains avai	c.	the computer is powered off. fragmented temporary
	ANS: A	PTS: 1	REF:	4
8.	Most Visual Basic 2 a graphical user inte a. GUI-based b. indexed		c.	ms because they communicate with the user through event-driven persistent
		PTS: 1	REF:	
		count Number count Balance Display Ac	count Ba	lance
		Rese	et Windov	v

9.	As shown in the accompanying figure, a(n)	c	onsists of a window	containing a	a variety	of ot	ojects
	that can be displayed on various devices.						
	a. ROM	.	CPU				

b. GUI d. ERD

ANS: B PTS: 1 REF: 5

10. Clicking a button like the one labeled Reset Window in the accompanying figure when a Visual Basic program is running triggers a(n) _____.

a. indexb. radicalc. baselined. event

ANS: D PTS: 1 REF: 6

11.	Users employ GUI o a. select options b. enter data	bjects to	0		cause events to occur all of the above
	ANS: D	PTS:	1	REF:	6
12.	Addition and subtraction a. input b. comparing	tion are	e considered to	c.	operations performed by a computer. arithmetic output
	ANS: C	PTS:	1	REF:	10
13.	It is the ability of a calculating devices.	ompute	r to perform _	ope	rations that separates it from other types of
	a. arithmeticb. input				logical output
	ANS: C	PTS:	1	REF:	11
14.	A computer uses a. arithmetic b. logical	_ opera	ntions to compa	c.	values to see if they are equal to each other. grouping sorting
	ANS: B	PTS:	1	REF:	12
15.	A computer is able to a. arithmetic b. grouping	o make	decisions base	c.	results of operations. logical sorting
	ANS: C	PTS:	1	REF:	16
16.	A is a collectiona. file b. folder	n of dat	a organized in	c.	er that allows access, retrieval, and use of that data. program database
	ANS: D	PTS:	1	REF:	16
17.	elements can be used a. logic	_	language is th	c.	rules that describe how the programming language syntax
	b. semantics	D			GUI
	ANS: C	PTS:	1	REF:	16
18.	A(n) is a set of program or series of a. integrated develob. graphical user in c. development stud. Microsoft International series of the program of th	progran opment iterface dio	ns. environment (I (GUI)	IDE)	a developer to code, test, and implement a computer
	ANS: A	PTS:	1	REF:	17
19.		IDE, the	e identifi		rindow or application open in the window.
	a. title barb. menu bar				index bar property

	ANS: A	PTS:	1	REF:	17
20.	The contains Basic program.	a list of c	ommar	nds that allow y	ou to create, edit, save, print, test, and run a Visual
	a. menu barb. toolbar			c. d.	Toolbox Properties window
	ANS: A	PTS:	1	REF:	
21.	The contains program.	the .NET	compo	onents that you	can use to develop the graphical user interface for a
	a. menu bar b. toolbar				Toolbox Properties window
	ANS: C	PTS:	1	REF:	18
22.	The of Visual Project, Save, Cut, a. menu bar			d Undo.	or commands that are frequently used, such as Open Toolbox
	b. Standard toolba	ar			Properties window
	ANS: B	PTS:	1	REF:	18
23.	Each control hasa. indices b. properties	<u></u> .			IDEs tools
	ANS: B	PTS:	1	REF:	19
24.	A button or a text b interface.	oox are ex	amples	s of objects, also	o called, that are part of the graphical user
	a. indicesb. classes			c. d.	libraries controls
	ANS: D	PTS:	1	REF:	19
25.	A is an item ta. propertyb. control	hat is a v	isible p	c.	
	ANS: B	PTS:	1	REF:	19
26.	a. Methods b. Function	eteristics (of obje	c.	sic. Identifiers Properties
	ANS: D	PTS:	1	REF:	19
27.		that can l	oe used	in Visual Studi	0.
	a. Fortranb. Visual F#				Lisp COBOL
	ANS: B	PTS:	1	REF:	19
28.	The characteristics	of GUI c	ontrols	such as buttons	s and text boxes can be set using the window

in the Visual Studio IDE.

	a. Characteristicsb. Attributes			Properties Values
	ANS: C	PTS: 1	REF:	19
29.	The most widely use a. SQL b. XML	ed programmin	c.	ae world is Java Visual Basic
	ANS: D	PTS: 1	REF:	19
30.	The Visual Studio p. a. Visual J# b. Visual C#	rogramming la	c.	s a synthesis of C++ and Visual Basic. Visual C++ Java
	ANS: B	PTS: 1	REF:	20
31.	The provides to a. SQL Server Set bNET Framework	_	c.	can use to produce and run programs. Java Toolkit both A and B
	ANS: B	PTS: 1	REF:	20
32.	All of the following a. RAM b. ADO.NET 4.0	are major feat	c.	Framework 4.0 EXCEPT the Common Language Runtime ASP.NET 4.0
	ANS: A	PTS: 1	REF:	20
33.	A class is a cola. glossary b. library	llection of clas	c.	nade available for developers to use index roster
	ANS: B	PTS: 1	REF:	21
34.	The process ofa. initialization b. instantiation		c. d.	objectification classification
	ANS: B	PTS: 1	REF:	21
35.	Each control that yo .NET 4.0 Framewor a. baseline b. roster		c.	phical user interface is created from a(n) in the index class
	ANS: D	PTS: 1	REF:	22
36.	A set of prewritten ca. ADO.NET 4.0 b. ASP.NET 4.0	classes called _	c.	to access data stored in a database. RAD CLR
	ANS: A	PTS: 1	REF:	22
37.	is called	g prebuilt class	es to make appli	cation development faster, easier, and more reliable
	a. RAD		c.	ARD

	b. CAD			d.	CLR
	ANS: A	PTS:	1	REF:	22
38.	The reads the Ma. CAD b. RAD	ISIL co	de and causes t	c.	gram instructions to be executed CLR ARD
	ANS: C	PTS:	1	REF:	23
39.	Translating programs by a process called pr			nts into	machine-executable instructions is accomplished
	a. instantiationb. compilation	rogram ₋	·		factoring indexing
	ANS: B	PTS:	1	REF:	23
40.		on runs (on a Web serve	er and p	oroduces code that is downloaded to a client
	computer's browser. a. XML b. DHTML				HTML HTTP
	ANS: C	PTS:	1	REF:	25
TRUI	E/FALSE				
1.	Computer hardware v	will perf	form its tasks a	utomat	ically, regardless of whether a software program is
	ANS: F	PTS:	1	REF:	3
2.	Many computer prog and finally process th			owing g	eneral steps: first accept input, then write output,
	ANS: F	PTS:	1	REF:	4
3.	Both program instruc	ctions an	nd the data to b	e proce	ssed must be stored in RAM.
	ANS: T	PTS:	1	REF:	4
4.	In order for the comp data must be placed i				carry out the instructions in the program, only the ess memory (RAM).
	ANS: F	PTS:	1	REF:	4
5.	In order for the comp computer's random a				th the program and the data must be placed in the
	ANS: T	PTS:	1	REF:	4
6.	Computer programs of	can be v	vritten in stand	ard Eng	glish.
	ANS: F	PTS:	1	REF:	5

	ANS: F	PTS:	1	REF:	5
8.	A programming lang software to create in:				abols that can be interpreted by special computer by a computer.
	ANS: T	PTS:	1	REF:	5
9.	Clicking a button on	a prograi	m screen cause	es an ev	vent to occur.
	ANS: T	PTS:	1	REF:	6
10.	A computer program numeric data.	can perf	Form addition,	subtrac	etion, multiplication, and division operations on
	ANS: T	PTS:	1	REF:	10
11.	Computers can comp	pare numb	bers, letters of	the alp	habet, and special characters.
	ANS: T	PTS:	1	REF:	11
12.	A logical operation of other, or if one value			e if two	o values are equal, if one value is greater than the
	ANS: T	PTS:	1	REF:	12
13.	If you write a computit each time, you must				ute the same program many times without rewriting
	ANS: T	PTS:	1	REF:	16
14.	A program can write	data, but	t it cannot save	e data o	on disk.
	ANS: F	PTS:	1	REF:	16
15.	Visual Basic 2010 is	a prograi	mming langua	ge.	
	ANS: T	PTS:	1	REF:	16
16.	Buttons for the .NET Standard toolbar.	compon	ents used to de	evelop	the graphical user interface are found on the
	ANS: F	PTS:	1	REF:	18
17.	Visual Studio can be	used to v	write programs	s only i	n Visual Basic language.
	ANS: F	PTS:	1	REF:	19
18.	An object acts as a g template.	eneral ter	mplate and a c	lass is a	a specific item generated based on the object
	ANS: F	PTS:	1	REF:	21

7. A graphical user interface (GUI) is a special device for communicating with a user.

19.		ET Framework Basic develop		ontains thousand	ds of cl	asses and many class libraries that can be used by
	ANS:	T	PTS:	1	REF:	22
20.		NET 4.0 allows data in a datab		ram to examin	e data f	from a database, but does not permit the program to
	ANS:	F	PTS:	1	REF:	22
21.	ADO.N	NET 4.0 is not	part of	the .NET Fram	ework	4.0.
	ANS:	F	PTS:	1	REF:	23
22.						ner interface into ASP.NET 4.0 that uses the design named Adobe Dreamweaver.
	ANS:	F	PTS:	1	REF:	23
23.	ADO.N	NET 4.0 is a pr	ogramr	ming frameworl	k used	to build Web applications on a Web server.
	ANS:	F	PTS:	1	REF:	23
24.		t all of the obje are available i			ET frai	mework, such as buttons, text boxes, and picture
	ANS:	T	PTS:	1	REF:	23
25.				offer multiple be environments o		that provide speed and flexibility for both the gram.
	ANS:	T	PTS:	1	REF:	24
MOD	IFIED T	TRUE/FALSI	E			
1.	The set	t of instruction	s that d	irects a comput	ter to po	erform tasks is called computer <u>hardware</u> .
	ANS:	F, software				
	PTS:	1	REF:	2		
2.				r to perform <u>ari</u>		operations that separates it from other types of
	ANS:	F, logical				
	PTS:	1	REF:	11		
3.	The pro	ogramming rul	les of a	language are ca	alled its	s semantics.
	ANS:	F, syntax				

	PTS: 1 REF: 17	
4.	<u>C++</u> is a language that is derived from the programming language C.	
	ANS: T PTS: 1 REF: 19	
5.	The process of creating an object from a class template is called generation.	
	ANS: F, instantiation	
	PTS: 1 REF: 21	
COM	PLETION	
1.	Program instructions and data must be placed in the computer's to al computer to carry out the program instructions.	low the
	ANS: random access memory RAM (random access memory) random access memory (RAM) RAM	
	PTS: 1 REF: 4	
2.	Stored data is said to be because it remains available even after the consist is powered off.	omputer
	ANS: persistent	
	PTS: 1 REF: 4	
3.	Operations, such as addition and subtraction, are called operations.	
	ANS: arithmetic	
	PTS: 1 REF: 10	
4.	Operations, such as comparing two numbers to determine if they are equal, are called operations.	
	ANS: logical	
	PTS: 1 REF: 12	
5.	A(n) is a collection of organized data that can be accessed, retrieved, used by a program.	and

PTS: 1

REF: 16

6.	The rules of	a programming	language are called the	of the language.
	ANS: synta	X		
	PTS: 1	REF:	17	
7.			mple of a set of services and tools cacode, test, and implement programs.	lled a(n)
	•	evelopment envi		
	PTS: 1	REF:	17	
8.			_ in Visual Studio 2010 contains the . r interface of a program.	NET components that can be used in
	ANS: Tool	oox		
	PTS: 1	REF:	18	
9.	The		programming language is a synthes	is of Visual Basic and C++.
	ANS: Visua	al C#		
	PTS: 1	REF:	20	
10.	When an obj	ect has been cre	ated from a class, we say that a(n)	of the class has been
	ANS: instar	nce		
	PTS: 1	REF:	21	
11.	The process	of creating an ol	oject from a class is called	·
	ANS: instar	ntiation		
	PTS: 1	REF:	21	
12.	An object is	instantiated from	n a(n)	
	ANS: class			
	PTS: 1	REF:	21	
13.	A class acts	as a general tem	plate from which a(n)	can be created.
	ANS: objec	t		
	PTS: 1	REF:	21	

14.	The .N	IET Framewor	k 4.0 _	contains thousands of classes.
	ANS:	class library		
	PTS:	1	REF:	22
15.		to work with		the set of prewritten classes in the .NET Framework 4.0 used in Visual es.
	ANS:	ADO.NET 4.	0	
	PTS:	1	REF:	22
16.				he set of prewritten classes in the .NET Framework 4.0 that is used in ce Web applications.
	ANS:	ASP.NET 4.0)	
	PTS:	1	REF:	23
17.				Visual Studio 2010 programming language is compiled, the code is te language called the
	Micro MSIL	soft Intermedia soft Intermedia (Microsoft Int	ate Lang	guage (MSIL)
	PTS:	1	REF:	23
18.	The _			reads the MSIL code and causes the program instructions to be executed
	Comm	non Language in Language in Common Language in Comm	Runtime	
	PTS:	1	REF:	23
19.	An apparation		uns on a	a Pocket PC or smartphone is called a(n)
	ANS:	mobile		
	PTS:	1	REF:	25
20.		plication that r		a computer device using the Windows graphical user interface is called application.
	ANS:	Windows		
	PTS:	1	REF:	25

MATCHING

Identify the letter of the choice that best matches the phrase or definition.

a. hardware

f. ADO.NET 4.0

b. event-driven c. class library

g. syntax

d. logical

h. persistent

.NET Framework 4.0

e. RAM

i. Visual Basic

- 1. Where data must be placed in order to be processed
- 2. The physical equipment associated with a computer
- 3. Kind of data that remains available even after the computer is powered off
- 4. The kind of computer program that communicates interactively with the user through a graphical user interface
- 5. The kind of operations used to compare two values
- 6. The programming rules of a language
- 7. The most widely used programming language in the world
- 8. Available for all developers who need to use it
- 9. The use of these classes allows a program to be developed rapidly
- 10. Provides the tools for a program to examine data that was retrieved from a database

1.	ANS:	E	PTS:	1	REF:	4
2.	ANS:	A	PTS:	1	REF:	3
3.	ANS:	H	PTS:	1	REF:	4
4.	ANS:	В	PTS:	1	REF:	5
5.	ANS:	D	PTS:	1	REF:	12
6.	ANS:	G	PTS:	1	REF:	17
7.	ANS:	J	PTS:	1	REF:	19
8.	ANS:	C	PTS:	1	REF:	21
9.	ANS:	I	PTS:	1	REF:	22
10.	ANS:	F	PTS:	1	REF:	22

ESSAY

1. Define data, explain its three forms, and the general steps a computer performs related to data.

ANS:

Data includes words, numbers, videos, graphics, and sound that programs manipulate, display, and otherwise process. The basic function of many programs is to accept some form of data (sometimes called input data), manipulate the data in some manner (sometimes called processing), and create some form of data usable by people or other computers (sometimes called output data, or information). In short, many computer programs perform the following general steps: accept input data, process the data, and create output data. The data that acts as input to a program, the processing that occurs, and the output that is created varies with the requirements of the program.

PTS: 1 REF: 3-4 TOP: Critical Thinking

2. Define syntax and explain its significance.

ANS:

Each program statement causes the computer to perform one or more operations. When written, these instructions must conform to the rules of the Visual Basic 2010 language. Coding a program is a precise skill. The developer must follow the syntax, or programming rules, of the programming language precisely. Even a single coding error can cause a program to execute improperly. Therefore, the developer must pay strict attention to coding an error-free program.

PTS: 1 REF: 16-17 TOP: Critical Thinking

3. Discuss at least four of the elements found in the Visual Studio 2010 window.

ANS

The title bar identifies the window and the application open in the window.

The menu bar displays the Visual Studio 2010 menu names, each representing a list of commands that allow you to create, edit, save, print, test, and run a Visual Basic program, as well as perform other functions that are critical to the development of Visual Basic programs.

The Standard toolbar contains buttons that execute frequently used commands such as Open Project, Save, Cut, Copy, Paste, and Undo.

The Toolbox contains .NET components that you can use to develop the graphical user interface for the program.

The main work area is used to contain the item on which you are working.

The Solution Explorer window displays the elements of the Visual Basic solution, which is the name given to the Visual Basic program and other items that are generated by Visual Studio so the program will execute properly.

An item that is a visible part of a graphical user interface, is called an object, or control. Each object in a Visual Basic program has a set of characteristics called the properties of the object. These properties can be set in the Properties window within Visual Studio.

PTS: 1 REF: 17-19 TOP: Critical Thinking

CASE

Critical Thinking Questions Case 1-1

As you prepare to bring one of the interns in your software development company up to speed on the project on which you are working, you decide to create some illustrations of your programming to make certain key concepts clear to the intern.

1. Which of the following is an example of an event that a user might perform in the application you are creating?

a. powering on the computer	c. clicking a button
b. saving data to RAM	d. all of the above

ANS:

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PTS: 1 REF: 6

2. All of the following are examples of actions within event-driven programs EXCEPT _____.

a. An account balance is shown when a	c. The computer reboots spontaneously as the
button is clicked.	result of a head crash.
b. A message appears on the screen in	d. A text box is reset when a Reset button is
response to text entered by the user.	clicked.

ANS:

c

PTS: 1 REF: 9

Critical Thinking Questions

Case 1-2

Visual Studio is new to you and you are trying to determine which of its languages is the best match for a couple of the projects on which you and your team are about to embark.

3. You are looking for a program that will be the most user-friendly for two of the junior members of your team, both of whom are new to programming. Which of the following is the best match?

a. Visual Basic	c. Visual C#
b. C++	d. All of the above

ANS:

a

PTS: 1 REF: 19

4. Steve and Shana on your team are looking for a language that will allow them to create an application that requires a high degree of control; they are not intimidated by complexity, as they have been programming for several years. Which of the following is the best match for them?

a. Visual Basic	c. C++
b. Visual C#	d. Visual F#

ANS:

С

PTS: 1 REF: 20