Starting Out with Visual C#, 4th Edition Chapter 2: Introduction to Visual C#

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1. Which one of the following Button control names is not a legal C# identifier?

	acalculateTotalButton
	b. printSalesReportButton
	<pre>c. clear_customer_names_button</pre>
	d. 1stPlayerStartButton
	ANS: D
2.	Which one of the following Button control names is a legal C# identifier?
	aDisplayOption5Button
	b. Exit!Button
	<pre>c. *Clear*Button*</pre>
	d. delete Record Button
	ANS: A
3.	The naming convention gets its name because the uppercase characters that appear in a name are sometimes reminiscent of a camel's humps. a. camelCase b. Pascal c. Hungarian notation
	d. CaMeL style
	ANS: A
4.	When learning computer programming, it is traditional to start by learning to write a program. a. Simple b. Hello World c. Pseudocode d. K&R Style
	ANS: B
5.	The PictureBox control's property determines whether the image stored in the control will cause the control to be shrunk or expanded. a. DisplayMode b. Visible c. SizeMode d. Render
	ANS: C
6.	Programmers commonly use in their code to create a sense of visual organization. a. different font colors

	b. documentation commentsc. blank lines and indentation
	d. bold images, such as photos
	ANS: C
7.	To close an application's form in code, you use the statement a. me.Quit(); b. this.Close();
	<pre>c. form.Exit(); d. app.Stop();</pre>
	ANS: B
8.	When you enter a statement into the code editor, Visual Studio analyzes it, and if a syntax error is found, it is a. automatically corrected b. underlined with a jagged line c. crossed out d. highlighted
	ANS: B
9.	The shows a description of the error, the name of the source code file containing the error, the error's line number and column number, and the name of the project. a. Debug dialog box b. Crash pop up c. Error List window d. Just In Time debugger
	ANS: C
10.	The file contains an application's start-up code, which executes when the application runs. a. Main.cs b. Code.cs c. Program.cs d. Source.cs
	ANS: C
11.	The file named contains code associated with a form named Form1. a. Form1.cs b. MainForm.cs c. Control.cs d. Window.cs
	ANS: A
12.	A is a declared block in a program between braces {} that holds classes.

	b. c.	method program namespace list	
	ANS: C		
13.	eleme	nts).	a logical container in a program that holds methods (as well as other program
	b. c.	event namespace queue class	
	ANS: D)	
14.	operat a. b. c.		s a sequence of one or more programming statements (code) that performs som
	ANS: B		
15.	the pro a. b. c.		rectives appearing at the top of a C# source code file indicate which namespace Usually, these namespaces belong to the .NET Framework.
	ANS: D)	
16.	a. b. c.	ontainers, such braces ({ }) asterisks (* *) parentheses (brackets ([])	as namespaces, classes, and methods, use to enclose code.
	ANS: A		
17.	desired a. b. c.		n between the <i>Designer</i> and the code editor is to click the for the only works if both the code file and designer file have already been opened.
	A NIC. D		

ANS: B

18.	A(n)	is a method that executes when a specific event (such as clicking the mouse) takes
	place v	while an application is running.
		action sequencer
	b.	feature coordinator
	c.	event handler
	d.	incident manager
	ANS: C	
19.	A(n)	event occurs on a control when the user clicks the mouse on a control while the
		m is running.
		Action
		Click
	_	Live
	d.	Mouse
	ANS: B	
20.	Α	is a small pop-up window, also known as a <i>dialog box</i> , that displays a message.
	a.	standard window
	b.	pop up
		banner
	d.	message box
	ANS: D	
21.	If you	want your code to execute a method, write a statement known as a(n)
	a.	event handler
		executor statement
	c.	initialization routine
	d.	method call
	ANS: D	
22.	Which	one of the following statements correctly display the text "Hello" in a message box?
	a.	Messagebox("Hello")
	b.	<pre>MessageBox.Show("Hello");</pre>
	c.	msgbox(Hello);
	d.	msgbox.show(Hello)
	ANS: B	
23.		a(n) appears around an object in the Visual Studio <i>Designer,</i> it indicates that the
		is selected and is ready for editing.
		sizing handle
		editing icon
		bounding box
	a.	frame

	ANS: C	
24.		
	ANS: B	
25.	=	n object in the Visual Studio <i>Designer</i> , the object's size, color, text, and other displayed in the window.
	ANS: D	
26.	Thea. Title b. Caption c. Name d. Text	property of a form determines the text that is displayed in a form's title bar.
	ANS: D	
27.	a. Areab. Resolutionc. Sized. Rectangle	property can be used to change a form's width and height, measured in pixels.
	ANS: C	
28.		
	ANS: D	
29.	Selecting the displayed in logical a. Grouped b. Categorized c. Ordered	groups.

©2016 Pearson Education, Inc. Upper Saddle River, NJ. All Rights Reserved. d. Type ANS: B 30. The Visual Studio window shows a scrollable list of controls that you can add to a form. a. Collection b. Bank c. Toolbox d. Shelf ANS: C 31. In the design window, you can click and drag a control to a new location when the mouse cursor is positioned inside the control and the mouse cursor becomes a _____ a. two-headed arrow b. four-headed arrow c. hand icon d. scissor icon ANS: B 32. To delete a control, you can select it on a form and then press the _____ key on the keyboard. a. Delete b. Z c. Tab d. X ANS: A 33. A Button control has a _____ property that holds a string to be displayed on the face of the button. a. Text b. Name c. Description d. Face ANS: A 34. A control's _____ property identifies the control in the application's code and in the Visual Studio environment. a. Text b. Source c. Tag d. Name

35. Control names are also known as ______, the same term used for variables in programs.

ANS: D

a. tagsb. identifiers

	values labels
ANS: B	
Start D a. b. c.	an application in Visual Studio, press the button on the keyboard or click the ebugging button on the toolbar. Enter F5 Tab Shift
ANS: B	
a. b. c. d.	hat contains program code is called a source code file program file C# file cs file
ANS: A	
enclose a. b. c.	tramming we use the term to mean a sequence of characters that could be ed in quotation marks "". statement thread word string
ANS: D	
a. b. c.	ode, are required to indicate the beginning and the end of a string. single quotation marks, such as (') double quotation marks, such as (") parentheses semicolons
ANS: B	
statem a. b. c.	a period marks the end of a sentence, a marks the end of a programming ent in C#. space underscore semicolon period
ANS: C	
41. When a	a piece of data such as 23 or "Hello" is written into a program's code, it is called a

	b.	constant sentinel value
	d.	literal
	ANS: D	
42.	a. b. c.	a string is written into a program's code, it is called a(n) string literal typed string encoded string string constant
	ANS: A	
43.	applica a. b. c.	you have a project open in Visual Studio, the time during which you build the GUI and write the tion's code is referred to as prototyping design time visual planning application progression
	ANS: B	
44.	a. b. c.	ne during which an application is executing is referred to as up time execution run time instancing
	ANS: C	
45.	When	you want to display text on a form but not allow the user to change the text, you use a
	b. c.	String control Label control Text control Font control
	ANS: B	
46.	a. b. c.	bel control can be found in the group of the <i>Toolbox</i> . Common Controls Containers Data Components
	ANS: A	
47.	The	property allows you to set the font, font style, and size of a control's text.

	a.	Appearance
	b.	Text
	c.	Font
	d.	Graphics
	ANS: C	
48.	The	can be accessed from the <i>Properties</i> window by clicking the ellipses () appearing
		the Font property's value.
		Text designer
		Font dialog box
		Text editor
	a.	Font selector
	ANS: B	
49.	Each La	abel control has a property that allows you to display a rectangle around the
	control	
		Border
	_	FrameStyle
		Frame
		BorderStyle
	u.	bolderstyle
	ANS: D	
	14/l-1-l-	and a faller faller. The faller of the colline for a faller faller of the Parada (faller of the colline)
50.		one of the following is not a valid setting for a Label control's BorderStyle property?
		FixedSingle
		None
	_	Fixed3D
	d.	FixedDouble
	ANS: D	
- 4	Labata	
51.		ontrols have a(n) property that affects the way they can be resized.
		Resize
		AutoSize
		SizeMode
	d.	Redraw
	ANS: B	
F 2	^	
٥۷.		property can be set to one of two possible values: <i>True</i> or <i>False</i> . Boolean
		Binary
		Singular
	d.	Toggle
	ANS: A	
Εĵ	A Labal	control's
55.	A Labe	control's property can be used to change the alignment of text within the Label.

a. TextPosition b. DisplayFont c. TextAlign d. HorizontalAlign ANS: C 54. In code, you use a(n) _____ to store a value in a control's property. a. string literal b. assignment statement c. dialog box d. constant ANS: B 55. In C#, the equal sign (=) is known as the _____. a. equality operator b. parity operator c. assignment operator d. transfer operator ANS: C 56. The standard notation for referring to a control's property in code is: a. ControlName.PropertyName **b.** ControlName->PropertyName c. ControlName::PropertyName d. ControlName<PropertyName/> ANS: A 57. Which of the following statements would display the number 25 in a Label control named ouputLabel? a. outputLabel.Text = 25; b. outputLabel.Text = "25"; c. outputLabel(25); d. outputLabel = "25"; ANS: B 58. Which of the following statements would clear the text displayed in a Label control named cityLabel? a. cityLabel.Text = "empty"; b. cityLabel.Text = "none"; c. cityLabel.Text = "clear"; d. cityLabel.Text = ""; ANS: D

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59.	is a feature of Visual Studio that provides automatic code completion as you write
	mming statements.
	IntelliSense
_	AutoComplete
	Snippet
	CodeHelper
ANS: A	
60. You ca	n use a(n) control to display a graphic image on a form.
a.	Image
b.	Graphics
C.	Texture2D
d.	PictureBox
ANS: [
61. Once y	you have created a PictureBox control, you use its property to specify the image it splay.
a.	Picture
b.	Image
C.	Source
d.	Display
ANS: E	
62.	is the default value of the PictureBox control's SizeMode property.
	AutoSize
b.	Normal
c.	Zoom
d.	StretchImage
ANS: E	
63	is a term that refers to an image's width to height ratio.
a.	Area
b.	Bounding box
C.	Aspect ratio
d.	UV map
ANS: 0	
	a PictureBox control's SizeMode property is set to, the image is uniformly resized
	he PictureBox without losing its original aspect ratio.
a.	Normal
b.	Zoom
	CenterImage
d.	StretchImage

ANS: B

65.	Most controls have a(n) property that determines whether the control can be seen by the user at run time. a. Enabled b. Invisible c. Show d. Visible
	ANS: D
66.	Assuming an application has a PictureBox control named profilePictureBox, which one of the following assignment statements will hide the PictureBox from the user at run time? a. profilePictureBox.Visible = False; b. profilePictureBox.Visible = false; c. profilePictureBox.Invisible = True; d. profilePictureBox.Invisible = true;
67	ANS: B
07.	are short notes placed in a program's source code, explaining how the program works a. Sketches b. Tags c. Comments d. Labels ANS: C
68.	A(n) appears on one line in a program and begins with two forward slashes (//). a. line comment b. short comment c. block comment d. documentation comment
	ANS: A
69.	A(n) can occupy multiple consecutive lines in a program. It starts with /* (a forward slash followed by an asterisk), and ends with */ (an asterisk followed by a forward slash). a. line comment b. block comment c. short comment d. documentation comment
	ANS: B
70.	are used by professional programmers to embed extensive documentation in a program' source code. a. Line comments b. Block comments c. Documentation comments d. Embedded comments

	ANS: C
True o	r False
1.	When you use the <i>Properties</i> window to change a control's Visible property at design time, the control will become invisible in the <i>Designer</i> .
	ANS: F
2.	A control's Visible property cannot be modified in code.
	ANS: F
3.	When you write the values true or false in code, they must be written in all lowercase letters.
	ANS: T
4.	When a method executes, the statements in the method always execute in the order that they appear from the beginning of the method to the end of the method.
	ANS: T
5.	Comments are short notes intended for the compiler to read and interpret.
	ANS: F
6.	In C#, there are three types of comments: line comments, block comments, and compilation comments.
	ANS: F
7.	A line comment does not have to occupy an entire line, so a line comment can appear after an executable statement.
	ANS: T
8.	Block comments make it easier to write long explanations because you do not have to mark every line with a comment symbol.
	ANS: T
9.	Writing comments should be avoided, especially for large and complex programs.
	ANS: F
10	The indentation of statements inside methods, classes, and namespaces is a convention that virtually all programmers follow.

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ANS: T
11. The standard Windows close button is the only way to close a running application in Visual Studio.
ANS: F
12. If you double-click an error message in the Error List window, the code editor will highlight and display the line of code that caused the error.
ANS: T
13. Each form and control in an application's GUI is assigned a default name.
ANS: T
14. The appearance and other characteristics of a GUI object are determined by the object's properties.
ANS: T
15. The <i>Properties</i> window contains a scrollable list of properties, which has two columns: the left column shows each property's name, and the right column shows each property's value.
ANS: T
16. Changing a form's Text property will change the form's name.
ANS: F
17. When the properties in the <i>Properties</i> window are displayed alphabetically, the (name) property appears at the bottom of the list.
ANS: F
18. To add a control to a form, you find it in the <i>Toolbox</i> and then double-click it.
ANS: T
19. You cannot click and drag controls from the <i>Toolbox</i> onto a form.
ANS: F
20. Once a control has been added to a form, it cannot be deleted.
ANS: F
21. To remove a control from a form, you select it and then press the F4 key on the keyboard.
ANS: F

22. When you create Button controls, they are automatically given default names such as button1, button2, and so forth.
ANS: T
23. When Button control is created, its Text property is initially set to the same value as the Button control's name.
ANS: T
24. Text displayed on a button should hint at what the button will do when it is clicked.
ANS: T
25. A control's name should reflect the purpose of the control.
ANS: T
26. C# identifiers can contain spaces after the first character.
ANS: F
27. The first character of a C# identifier must be one of the letters a through z or A through Z or an underscore character (_).
ANS: T
28. A Hello World program is a simple program that merely displays the words "Hello World" on the screen.
ANS: T
29. The only way to run a program in Visual Studio is by clicking the Start Debugging button on the toolbar.
ANS: F
30. C# source code files always end with the .cs extension.
ANS: T
31. The Program.cs file contains auto-generated code that serves as an outline to which you should add your own code as you develop the application.
ANS: F
32. It is important that you do not modify the contents of the Form1.cs file because doing so will prevent the application from executing.
ANS: F

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33.	C# code is primarily organized in three ways: namespaces, classes, and methods.
	ANS: T
	C# code is organized using namespaces, which are contained inside classes, which are contained inside methods.
	ANS: F
	Each opening brace ({) of a code container must have a matching closing brace (}) later in the program.
	ANS: T
36.	You can detach the code editor window and use the mouse to drag it to another part of the screen.
	ANS: T
	When an event handler is generated for a control by Visual Studio, it doesn't do anything until you add your own code.
	ANS: T
	The .NET Framework provides a method named ${\tt MessageBox.Show}$ that you can use in Visual C# to display a pop-up message box.
	ANS: T
39.	Programmers refer to the act of executing a method as <i>calling</i> the method.
	ANS: T
40.	Single quotation marks can be used in program code to mark the beginning and ending of a string.
	ANS: F
41.	Ending a programming statement with a semicolon is not required in C#.
	ANS: F
	If you wish to create a Click event handler for a control in Visual Studio, it is not necessary to double-click the control in the <i>Designer</i> first.
	ANS: F
43.	In C#, string literals must be enclosed in double quotation marks.
	ANS: T

4	4. Programmers sometimes say that literals are values that are <i>soft coded</i> into a program because the value of a literal can be changed while the program is running.
	ANS: F
4	5. In a C# application, all buttons on a form must share the same Click event handler in form's source code file.
	ANS: F
4	6. At run time, you should not use the <i>Designer, Toolbox, Properties</i> window, or code editor to modify the program.
	ANS: F
4	7. The terms run time, runtime, and run-time all typically mean the same thing.
	ANS: T
4	8. Once you have placed a Label control on a form, set its Text property to the string you want to display.
	ANS: T
4	9. A Label control's Text property is initially set to the same value as the Label control's name.
	ANS: T
5	0. A control's name should never be changed to something other than the default name that Visual Studio gives it.
	ANS: F
5	1. A Label control's BorderStyle property is set to FixedSingle by default.
	ANS: F
5	 To change the BorderStyle property of a Label control in the Designer, select it in the Properties window and then click the down-arrow button that appears next to the value.
	ANS: T
5	3. By default, a Label control's text is aligned with the top and left edges of the label's bounding box.
	ANS: T
5	4. The assignment operator assigns the value that appears on its left side to the item that appears on its right side.
	ANS: F

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55	Because the Label control's Text property can accept only strings, you cannot display a number in a label.
	ANS: F
56	In code, if you want to clear the text that is displayed in a Label control, you can assign an empty string ("") to the control's Text property.
	ANS: T
57	When typing a statement in code, press the Tab key on the keyboard to accept suggestions made by the IntelliSense feature of Visual Studio.
	ANS: T
58	In the <i>Designer</i> , the PictureBox tool is located in the <i>Common Controls</i> group in the <i>Toolbox</i> window.
	ANS: T
59	When the PictureBox control's SizeMode property is set to <i>AutoSize</i> , the PictureBox control is automatically resized to fit the size of the image being displayed.
	ANS: T
60	PictureBox controls have a BorderStyle property, but it does not work like a Label control's BorderStyle property.
	ANS: F

61. Buttons are the only controls that respond to Click events.

ANS: F