





Visual Reasoning



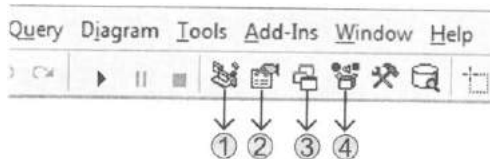
Introduction to Visual Basic

1. What would be the value of variable res after execution?
 $\text{res} = 9 \text{ Mod } 2 + 1 - 2$
(a) -1 (b) 3
(c) 0 (d) 4
2. A _____ is the primary work area where a user draws a GUI interface by placing several controls.
(a) Toolbox (b) Form window
(c) Project window (d) Properties
3. An environment that contains all tools and characteristics needed to create, run and test your program is called a/an _____.
(a) IDE (b) OOD
(c) OOP (d) EIDE
4. What is the base of a user interface in a Visual Basic application?
(a) Lable (b)Text Box
(c) Command Button (d) Form
5. A VB application works in three modes. Which among the following is NOT a valid mode?
(a) Design mode
(b) Run mode
(c) Interaction mode
(d) Break / suspended mode
6. The statements which control the flow of execution of a program are called conditional statements. VB provides two conditional statements which are _____.
(a) If __ Then __ Else and Select Case
(b) If __ Then __ Else and Do While
(c) Select Case and For __ Next
(d) For Next and Do __ Loop
7. In Visual Basic, the key to display the Properties window is _____.
(a)  (b) 
(c)  (d) 
8. What is the output of the following Visual Basic code?

```
Print Replace("Hello-World",  
    "-", "/")
```






(a) Hello World (b) Hello/World
(c) Hello World (d) hello world

9. Observe the snapshot shown here and identify which of the marked areas when clicked will open the Form Layout window?



- (a) (1) (b) (2)
(c) (3) (d) (4)

10. Select the INCORRECT match.

(a) Image tool	
(b) Label	
(c) Text box	
(d) Frame	

11. _____ is used to display some text.

- (a) Label (b) Toolbox
(c) Properties (d) IDE

12. Which of the following lines of code will display an input box and then store the value entered in an Input Box into a variable of integer type?

- (a) `n = Input Box ("Enter number", Input, 0)`
(b) `Input Box ("Enter number", Input, 0) = n`
(c) `n = Val (Input Box ("Enter number", Input, 0))`
(d) All of these

13. Match the components given in Column-I with the functions they provide given in Column-II.

(a) Form window	(i) To write the instruction for any object
(b) Properties window	(ii) Displays a list of forms and other objects that constitute an application
(c) Project Explorer window	(iii) Used to place various controls on a blank area
(d) Code window	(iv) Used to set the characteristic of forms and other controls placed on them

- (a) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)
(b) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
(c) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)
(d) (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)

14. Given here is the syntax of message box. What value should be entered for style value? If you want to display yes and no command buttons on the message box? `Msg Box (Prompt, style value, title)`

- (a) 0 (b) 1
(c) 3 (d) 4

15. Which of the statements marked as Line 1, Line 2, Line 3 and Line 4 will cause an error?

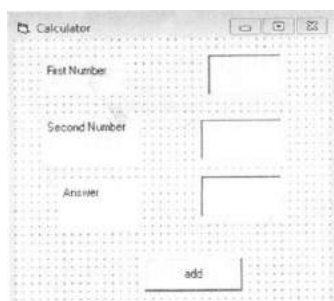
Line 1 `If A > 20`
Line 2 `A=A+ 1`
Else
Line 3 `A = A + 2`
Line 4 `Print A`
End If

- (a) Line 1 (b) Line 2
(c) Line 3 (d) Line 4

Achievers Section (HOTS)

- 16.** You have designed a form in VB and now you want to view where it will be positioned on the screen at run time. Which of the following is a tool available in VB that gives you a thumbnail view of the current form and also let you move this thumbnail to change the position of form?
- (a) Project Explorer (b) Menu Bar
(c) Form Layout window (d) Object Browser

- 17.** The form interface in Visual Basic is shown here that adds the two numbers entered by the user. Which of the following codes is correct for adding two numbers?
Assume the Name property of the controls as:
- (a) First Number Text Box: Text1
(b) Second Number Text Box: Text2
(c) Answer Text Box: Text3
(d) add Command Button : cmd Add



- (a) Private Sub cmd Add_Click()
Text3.Text=Val(Text1.Text)+Val(Text2.Text)
End Sub
(b) Private Sub cmdAdd_Click()
Text1 .Text=Val (Text1 .Text) +Val (Text3. Text)
End Sub
(c) Private Sub cmdAdd_Click()
Text1.Text=Val(Text2.Text),Add, Val(Text3.Text)
End Sub
(d) Both [B] and [C]
- 18.** In Visual Basic, what value of the Scroll Bars property in the properties of the textbox indicates that both horizontal and vertical scrollbars are included if you have set the Multi Line property as True?
- (a) 0 (b) 1
(c) 2 (d) 3
- 19.** Which of the following string functions returns the numbers contained in a string as numeric values?
- (a) Val () (b) Instr ()
(c) Len () (d) Digit ()
- 20.** Select the CORRECT match.

(a) Int()	Converts a number into integer by truncating its decimal part
(b) Round ()	Round up an integer to a decimal number
(c) Instr ()	Searches for string within a string and then replace it.
(d) Trim ()	Remover space in between two words

HINTS & EXPLANATION

1. (b) : Mod operator returns the remainder after division, so, the given arithmetic expression would evaluate as $1 + 1 - 2 \rightarrow 0$
2. (b)
3. (a)
4. (d) : Forms provide the windows that make up a Windows application. It allows the Visual Basic developer to create windows and layout controls (such as buttons, labels etc.) in those forms to provide the application's user interface.
5. (c)
6. (a)
7. (b)
8. (b): Replace function returns a string in which a specified substring has been replaced with another string. Syntax of this function is: Replace (string, find, replace[, start[, count[, compare])
9. (b)
10. (b): The image given in option (a) is of Picture Box not of image tool.
11. (a)
12. (a)
13. (c)
14. (d) : Given here is a statement that can be used to display a message box with Ok and Cancel buttons in visual basic application Msg Box "All the changes would be saved permanently", 4, "Confirm Changes".
15. (a): Line 1 will generate an error because If condition must have Then or Go To keyword.
16. (c) : To set the position of form on screen, enable the Form Layout window by going to View tab and click on Form Layout Window option or click on its icon available on standard toolbar. Then, run your program once and then drag the form thumbnail on the Form Layout window to change its position.
17. (a)
18. (d)
19. (a)
20. (a): Int () returns the integer portion of a number.
Round Q returns a number to specified number of decimal places. Instr () returns the position of the first occurrence of one string within another. Trim () truncate the space from both left and right side of a string.