

(iii) It cannot give password character.

(iv) InputBox can be moved on the screen.

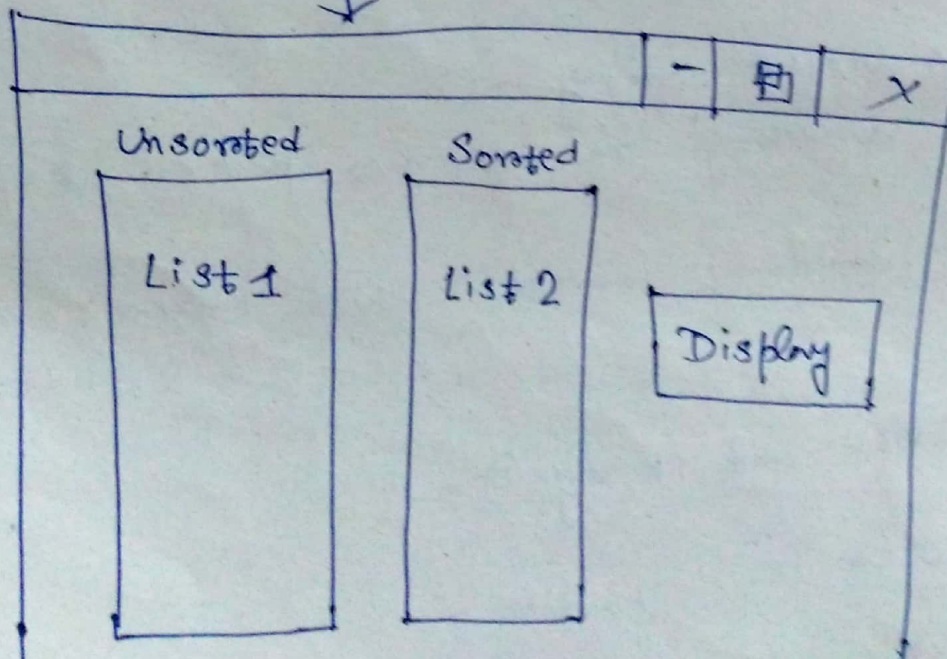
MessageBox

(i) MessageBox function is primarily intended to show an output string.

(ii) MessageBox function offers a convenient way to display error messages as well as other type of information that may be useful during the course of the computation.

(7) (a) Write a VB code to perform insertion sort. (15)

Design view



• When option Explicit appears in a file, we must explicitly declare all variables by using the Dim or ^{private public} ReDim statements. Use option explicit to avoid incorrect typing the name of an existing variable or to avoid confusion in code where the scope of the variable is not clear.

(9)(a)

Write a program to Add, Modify and Delete records to/from the Student table?

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(b) What is docking? What is collection? How does it differ from Array?

(Ans) The interface may become messy if several windows have been moved or resized. When this happens, Visual Basic allows the windows ~~are always aligned~~ to be returned to their orderly, preassigned position. This is called docking.

A collection is an object used for grouping and managing related objects.

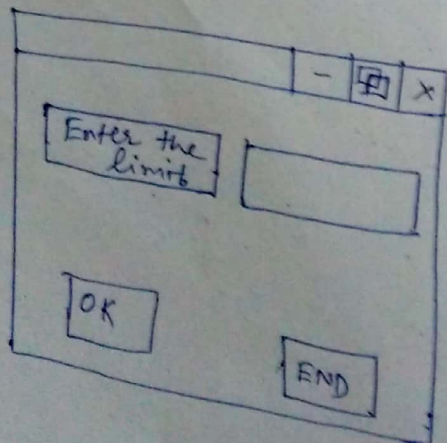
Difference between collection and array

Array has a fixed size, that means its size cannot be increased or decreased without reconstruction. On the other hand, collection does not need to be reconstructed. It increases or decreases its size if we add or remove items from it.

(10)

Write a program to display Fibonacci series.

Design View



code view

↓

```
Private Sub Command1_Click()  
Dim a, b, n, i, sum As Integer  
n = Val(Text1.Text)  
a = 0  
b = 1  
Print a  
Print b  
For i = 3 To n  
    sum = a + b  
    Print sum  
    a = b  
    b = sum  
Next i  
End Sub
```

output view

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(D) KeyPress :-> The KeyPress event detects the ASCII value of the character generated by the pressed key. The KeyPress event procedure's single parameter is Key ASCII. Key ASCII is an integer representing the ASCII value of the character generated by the user's keypress.

For ex:- If the user key an uppercase "A" then keypress event triggers and the Key ASCII parameter will have a value 65.

(E) ReDim :-

Dim is used to declare a variable. But ReDim is used to declare that variable with reallocation. Using ReDim the size of the variable is increased. Ex:-

```
Dim x( ) As Integer
:
:
ReDim x(10)
```

What is data validation? Give an example.
(Ans) In many applications when we enter something incorrectly or when we leave the field blank, it warns us with a message. This is called validation.

In short, validation tells the user to enter valid data.

Module-level :→ They are available to all procedures in that module but not by procedures in other modules.

Public :→ They are available to all procedures in all modules in all applications.

Ex:- Public int variable AS Integer

Group - C

(7)(a) What is the difference between drop-down menu and pop-up menu?

(Ans) The Difference between drop-down menu and pop-up menu are:-

(Refer to 2016, No. 6)

Code View



```
Private Sub Sort_array(x() As Single, n As Integer)
    Dim temp As Single
    Dim i, j As Integer
    For i = 0 To n - 1
        For j = (i + 1) To n
            If (x(i) > x(j)) Then
                temp = x(i)
                x(i) = x(j)
                x(j) = temp
            End If
        Next j
    Next i
End Sub
```

```
Private Sub Command1_Click()
    Dim x() As Single
    Dim index As Integer
    For index = 0 To 9
        x(index) = InputBox("Enter number")
        List1.AddItem x(index)
    Next index
    Call Sort_array(x(), 9)
    For index = 0 To 9
        List2.AddItem x(index)
    Next index
End Sub
```

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• What is the Basic difference between them? (2)

(Ans) The Basic differences between those procedures are;

A Function procedure is similar to a Sub procedure, with one important difference: a function is intended to return a single data item. Just as a library function return a single data item.

• Write the steps to create and call a procedure in VB application. (6)

interface, complementing and in some cases replacing.

(ii) A drop-down menu will descend from the menu heading when the user clicks on the menu heading.

Pop-Up Menu

(i) A Pop-up menu can appear anywhere within a form usually in response to click the right mouse button.

(ii) Normally the upper left corner of the pop-up menu appears at the location of the mouse click.

(iii) A pop-up menu is created via the Menu Editor in the same manner as a drop-down menu, except that the main menu item is not possible.

- The purpose of the menu editor is:-
To add menus and menu bars.

- Refer to 2015 8(b).

Group - C

(7)(a) What is dynamic array? Explain with an example. (15)

(Ans) A Dynamic Array is an array whose size can be changed at various places within a program. To declare a dynamic array, we use

P.T.O