

## LIBRARY FUNCTIONS

1 Define the term Library Functions in Visual Basic. Name the different categories of library functions available in Visual Basic. Give the usage and syntax of any two library functions.

Sol.: Visual Basic offers many functions that are pre-defined or built-in into the VB interpreter, which can be used directly in any program. These functions are highly reliable and can tremendously reduce the amount of coding required for a program.

Different categories are:

- |                           |                           |
|---------------------------|---------------------------|
| 1. Numeric functions      | e.g Int(),Fix()           |
| 2. String functions       | e.g Mid(),Ucase()         |
| 3. Date Functions         | e.g Now(),date()          |
| 4. Miscellaneous function | e.g Isdate(), Isnumeric() |

### Syntax of Mid Function

Mid ( string, start position, no. of char) : - Mid function is used to extract characters from the middle of a string . We need three arguments : The original string , the place to start extracting and the number of characters to extract.

### Syntax of InStr function

InStr(start,string1,string2,compare):- InStr function searches for string within string. Its first string is position in the string to start searching. The second argument is the string to search in. The third argument is the string to search for and the last argument is whether or not you want a case-sensitive search.(0 for yes, 1 for no) .

2. Write the output that the following code segment will generate :

```
x="Class"  
Print Mid (LTrim( "Computer Science" ),1,4)+"One"  
Print(7*4>8+3) And (3^2 < 6/2)  
Print Val("16 oranges") + Len(x)  
Print InStr("Computers", "ut")
```

Sol.:

```
CompOne  
False OR 0  
21  
5
```

3. Write the output that the following code segment will generate

```
String1 = "Class XII"  
String2 = "XI"  
Print String1 + String2  
Print InStr (String1, String2)  
Print Mid (LCase(String1), 6, 3 )  
Print Int(4.7) + Len(String2)
```

Sol.:

```
Class XII XI  
7 OR 6  
xi OR xii  
6
```

4. Check that in the text box for Employee code (txtEmpCode) only numeric data is entered.

sol.: If Not(IsNumeric(txtEmpCode.Text)) Then  
Msgbox ("Please enter numbers only")  
End If  
OR



K=k+1

Loop

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9. What is the role of Mid statement? How is it different from Mid() function?

Sol.: The Mid() function extracts and returns a sub string from a string keeping the original string intact in the process. Contrary to this , the Mid statement modifies the original string by replacing the extracted sub-string with the string placed on the right hand side of the expression. E.g

Dim s as string

S= "test mid"

The function Mid(s,6,3) returns "mid" but does not change the contents of the variable 's'.

However , the statement

Mid(s,6,3)="fix"

Will change the variable 's' to "test fix"

10. Give the statement to check whether a given string is palindrome or not?

Sol.: If strtest = Strreverse(strtest) Then

Print "Given string is palindrome"

Else Print "Given string is not palindrome"

End if

11. What is the difference between Int() and Fix() functions

Sol.: Fix function truncates the decimal part where as the Int function returns an integer less than or equal to its argument , therefore Int and Fix functions give the same result for positive arguments, but for negative arguments the result differ. E.g

Fix(2.6) ' gives 2

Int (2.6) ' gives 2

But

Fix(-2.6) ' gives 2

Int(-2.6) ' gives 3 (an integer lesser than its arguments)

12. What are the uses of the Timer function.

Sol.: The timer function returns thenumber of seconds that have elapsed since midnight and can be used if we need to find out the time interval between two time periods.

13. Difference between Date() and Date\$( ) functions?

Sol.: Date()	Date\$( )
Return data type:- Variant	Return data type:- String
Return Format:-mm/dd/yy	Return Format:-mm-dd-yyyy
Months/Days less than 10 are represented without leading zeros e.g 9/9/08	Months/Days less than 10 are represented with leading zeros e.g 09-09-2008

14. Write down the syntax of few important library functions along with their usage.

Sol.: 1. LCase(string):- use to convert strings into lower case.

2. Ucase(string) :- use to convert strings into upper case.

3. Len(string) :- gives length of the string.

4. Ltrim(string) :-removes leading spaces from a string

5. Rtrim(string) :- removes trailing spaces from a string

6. trim(string) :- removes leading & tailing spaces from a string

7. Left(string,no. of char) :- use to extract certain no. of characters from left most

8. Right(string,no. of char) :- use to extract certain no. of characters from rightmost

9. space(number) :-Produces a certain no. of spaces
10. string(number,character):- use for producing a string with certain no. of repeating characters
11. Sgn(number) :- use to determine sign of a number
12. Val(string) :- use to convert number contained in a string into equivalent number.
13. Now() :- Use to return the current systemdate & Time
14. Time() :- Use to return the current system Time
15. Month(date argument) :- Use to return the month number
16. Minute(time argument) :- Use to return the time argument's minute part
17. Inputbox(prompt,[title],[default]):- Use to solicit data from user.
18. msgbox(prompt,[button],[ title]):- Use to get yes or no response from users