

* Library Function :-

A function which is defined at the time of Visual Basic Development is known as Library Functions. These functions are categorised as

- 1) Date & Time Function.
- 2) String Function.
- 3) Mathematical Function.
- 4) Financial Function.

1) Date & Time Function :-

It is used to display system date & time. V.B provides many date & time functions. Some of them are:-

- i) Now () :- This function returns both the system date & time.

Syntax:-

Now ()

Eg.

Print Now ()

(ii) Day() :-

This function returns day number of the date specified by the argument. The day date argument must be a valid date.

Syntax :-

Day (<valid Date>)

Eg.

① Print Day (^(constant) #22/08/2012#).

Output = 22

② Print Day (Now)

23/8/12

WeekDay() :-

This function returns integer value in the range of 1 to 7 representing the day of week. 1 for Sunday, 2 - Monday, ..., 7 - Saturday.

Syntax :-

WeekDay (<Date>)

E.g.

Weekday (Now):

Month() :-

This function returns integers in the range of 1-12. 1-Jan, 2-Feb, 3-March, ..., 12-Dec.

Syntax :-

Month (<Date>)

Eg :-

Month (Now)

• Date() :-

This function returns the current date in MM/dd/yy format.

Syntax :-

Date()

Example :-

• DateValue() :-

This function returns variant type of date.

Syntax :-

DateValue (<Date>)

Eg :-

Print Date value (#17/05/11#).

Output → 17/5/2011

• Timer()

This function returns a single number representing the no. of seconds elapsed since last Midnight.

Syntax:

Timer()

Eg:-

Print Timer().

• Time()

This function returns system time in am/pm format.

Syntax:-

Time()

Eg:-

Print Time

* String Function

The String function is used for manipulation of string in V.B.

1) Instr() This function returns the position of string within another string.

Syntax:-

Instr (String 1, String 2).

Eg:-

Print Instr ("Jyoti", "y").

2) Strcomp() :-

Strcomp ~~to~~ function compares two string & returns a value. The values are given below.

0 \rightarrow if String 1 = String 2.
 -1 \rightarrow if String 1 < String 2.
 1 \rightarrow if String 1 > String 2.

Syntax:-

Strcomp (String 1, String 2).

Eg:-

Strcomp ("Suraj", "Suni")
 Output = 1.

3) Left() :-

The Left() returns the no. of character from the beginning of the string

Syntax:-

Left ("String", Number).

Eg:-

Left ("Deepika", 4)

Output :- Deep

4) Right() :-

The Right() returns the no. of character from the ending of the string.

Syntax:-

Right ("String")

24/8/12

5) Mid() :-

This function returns a section of string of length of character starting at the position start.

Syntax:-

mid ("String", start-pos, length)

Example:- mid ("Jyoti", 3, 3)

6) Len() :-

This function returns length of a string.

Syntax:-

Len ("String");

Example:-

Print Len ("Jyoti")

7) Ltrim() :-

This function ~~returns~~ trims (removes) the blank spaces of string from left.

Syntax :-

Ltrim ("String")

Example :-

Print (" Jyoti ")

Output → Jyoti

8) Rtrim() :-

This function removes spaces from the end of string

Syntax :-

RTrim ("Jyoti ")

Example :-

Print (" Jyoti ");

Output = Jyoti

9) Trim() :-

This function removes spaces from either side of string.

Syntax :-

Trim ("String")

Example :-

Print Trim (" Jyoti ")

Output → Jyoti

10) UCase () :-

This function converts a string into upper case string.

Syntax:-

UCase ("String")

Example:-

Print UCase ("Jyoti")

Output :- JYOTI

10) LCase () :-

This function converts a string into lower case string.

Syntax:-

LCase ("String")

Example:-

Print LCase ("JYOTI")

Output → ~~Jyoti~~ jyoti

11) ProperCase () :-

This function converts a given string to proper case i.e. 1st letter of word should be capital.

Syntax:-

ProperCase ("String")

Example:-

Print propercase ("Jyoti Kumari")

Output :- Jyoti Kumari

Teacher Signature

String Function :-

This function returns a string of numbers, character specified by user.

Syntax:-

String (numbers, character)

Example:-

String ('4', 'k')

Output :- KKKK.

• Str Reverse () :-

This function reverse a string specified by its argument.

Syntax:-

Print StrReverse ("Jyoti")

Output :- ito yJ.

• Replace () :-

The replace function search for a substring within string & replace it with other string. It has three argument.

Syntax:-

Replace (<String>, <Sub-string>, <value>).

Example :- In the above syntax the 1st

argument ~~replaces~~ is string in which sub-string will be replaced. The 2nd argument sub-string is locate & replace & the 3rd argument is the replacement string.

Example :- Replace ("Jyoti", "Jyoti", "Suma")
 ⇒ Suma.

• Str() :-

This function converts an integer to string.

Syntax :-

Str (integer data).

Example :- 10.

Private Sub command1-click()

Dim a, b As Integer.

a = 5

b = 10

Print a + b

Print Str(a) + Str(b)

5

10

End sub.

* Mathematical Function :-

Mathematical Function used for mathematical operation in V-Basic.

Some of the Mathematical Functions are given below:-

1) Int() :-

This function accept a numeric argument & return its integer part.

Syntax:-

$\text{Int}(\langle \text{exp} \rangle)$

Example:-

Print Int (762.83216)

Output 762..

2) Log() :-

The Log function return natural logarithm of a number. The expression of Log function must be a positive (+ve) number.

Syntax:-

$\text{Log}(\langle \text{exp} \rangle)$

Example:-

Log (28)

28
28 6
774

3) Hex()

This function accept decimal no. as an argument & return the hexadecimal number of a decimal no.

Syntax:-

Hex (< Decimal Number >)

Example:-

Print Hex(11).

Output :- B

4) Oct()

This function accept a decimal no. as an argument & return its octal equivalent.

Syntax:-

Oct (< Decimal Number >)

Example:-

Print Oct(11)

Output = 13.

5) RND()

This function returns a Random number in the range 0 to 1.

Syntax:-

RND() Rnd()

Example:- (i) Print 0.32146

(ii) Print 0.23111

(iii) Print 0. ~~Tejesh~~ Signature

8) 11/11/18

6) Cos() :-

This function returns cosine of angle express in radian & return value in radian.

Syntax:-

$\text{Cos}(\langle \text{angle} \rangle)$.

Print Cos (11)

7) Sim() :-

This function returns the sin of an angle in terms of radian.

Syntax:-

$\text{Sim}(\langle \text{angle} \rangle)$.

Example:-

Print Sim (11)

8) Tan() :-

It returns tangent of an angle in terms of radian.

Syntax:-

$\text{tan}(\langle \text{angle} \rangle)$.

Example:-

Print tan (11).

9) SQR()

This function returns a square root of a number.

Syntax:-

SQR (<Number>).

Example:-

Print SQR(9)

Output 3.

10) Val()

The Val function converts string data into numeric.

Syntax:-

Val (<exp>):

Example:-

Val ("3").

Output = 3.

* Financial Function1) SLN() (Strength Line)

This function returns the depreciation of an asset for one specific period of time.

Syntax:-

SLN (cost, last value, Life)

Example:-

Print SLN (100000, 7500, 10)

Output 9250.

2) DDB() (Double-Declined Declining Balance)

This function calculate the depreciation for a particular period within the life of asset.

Syntax:-

DDB (cost, Last-value, life, period)

Example:-

Print DDB (100000, 7500, 10, 5)

3) PMT()

This function returns the value of loan amount that we want to pay per month.

Syntax:-

Print (Rate, no. of periods, Amount-loan)

Example:-

(15/12, 60, 100000).