BASIC DATA TYPES

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Basic Data Types

 Vb language also supports number of data types

• Data types in Vb are classified as :

- Numeric
- String
- Date
- Boolean
- Variant

Numeric Data Type

- It is used to store the numbers .They are divided as:
 - Byte: Used to store integer values in range of 0-255
 - Integer:Used to store integer values in the range of (-32,768)-(+32,767)
 - Long : Used to store integer values in range(-2,147,483,468)-(+2,147,483,468)
 - Single: Store floating point values in range of (-3.4x1038)-(+3.4x1038)
 - Double : store floating point values
 - Currency :Used to store monetory values.It supports 4 digits to right of decimal and 15 digits to left

String Data type

• It is used to store alphanumeric values

 Length of a character can store approximately 4 billion characters

Date Data Type

- It is used to store date as well as time values
- A variable which is declared as date can store the values date as well as time
- The range of date is : 01/01/0100 to 12/31/9999

Boolean Data Type

- It is used to hold either true or false value
- They are internally stored as :
 - 1 for true 0 for false

Variant Data type

- It stores any type of data
- It is default data type
- In vb, if we declare a variable without any data type then it s considered as variant

Variables

- They are the memory locations used to store the value temporary
- Before using the variables it is necessary to declare it
- There are various ways of declaring variables in vb.

Ways to declare variables

Explicit DeclarationImplicit Declaration

Explicit Declaration

 It is declared using Dim statement followed by variable name and type as follows:

Dim varname As Type Ex :Dim college_name As String Dim index As integer

Rules for naming the variables

- It must begin with alphabet
- It should not be more than 255 characters
- It must be unique
- It should contain any special characters like,@,&,% or \$

Implicit Declaration

- You can also declare variables without specifying their types
- VB creates a variable 'Variant' for it
 - Ex: Dim var1,var2
- A variant type can store any type of values It is a flexible type of data type

- Finally, you can omit the declaration statements
- For this we have to add a suffix as shown below:

Symbol	Datatype
\$	String
%	Integer
&	Long
!	Single
#	Double

Constants in VB

- Some of the variables do not change the value during the execution
- This are the constants
- Constants are named storage locations in memory ,whose value doesn't change during execution
- Constant can be created as well declared

- Const statement is used to create a constant
- It can be declared in local or global form
- It can be public or private
- General Form :

Public Const

Constantname[AsType]=value

