VARIABLES IN C++

- A Variable is a container to hold data
- Variable can be of various types. Primarily we have these variable types in C++:
  1. Int
  2. Float
  3. Char
  4. Double
  5. Boolean
- int sum = 34; means sum is an integer variable which holds value 34 in memory

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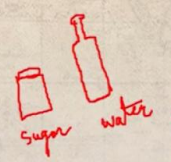
- Variable can be of various types. Primarily we have these variable types in C++:
  1. Int -1, 1, 0, 7, 8, 1,112
  2. Float 1.21 3.77
  3. Char 'c' 'd' 'C'
  4. Double 1.218....
  5. Boolean T or F yes or No's
- int sum = 34; means sum is an integer variable which holds value 34 in memory

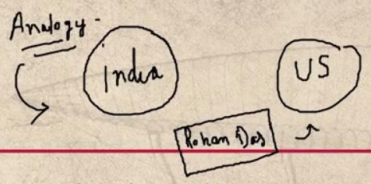


'P'

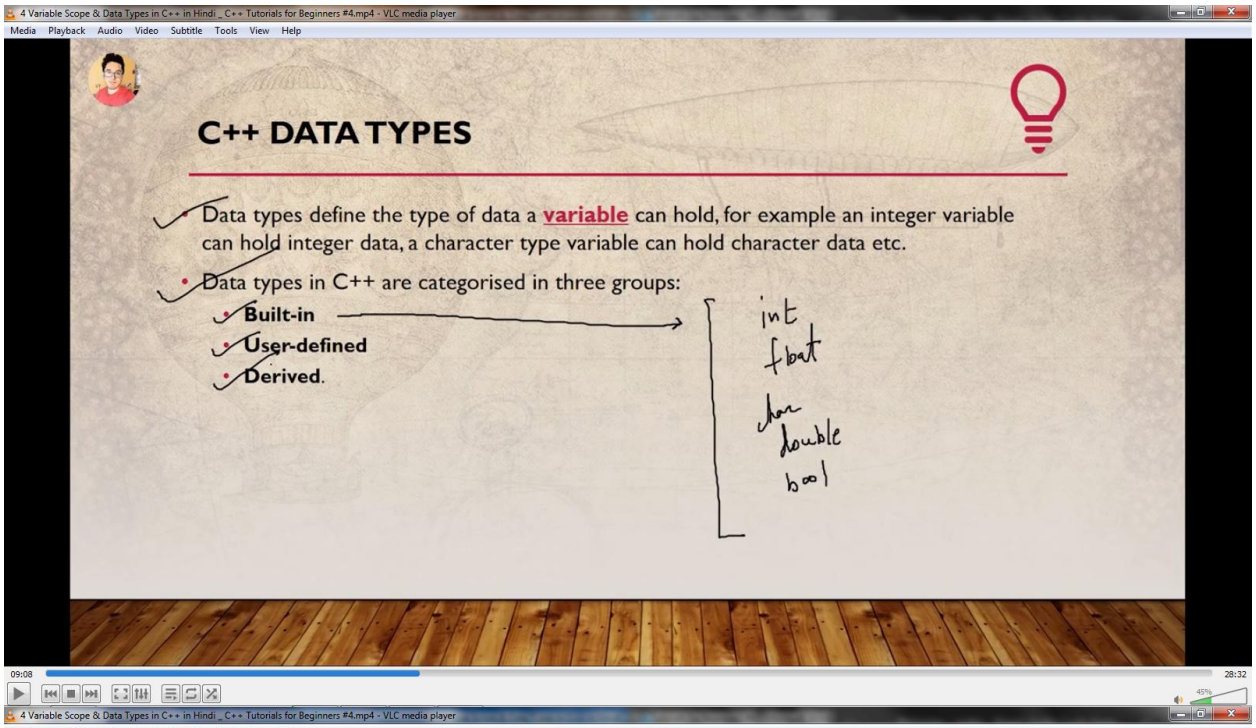
SYNTAX FOR DECLARING VARIABLES IN C++

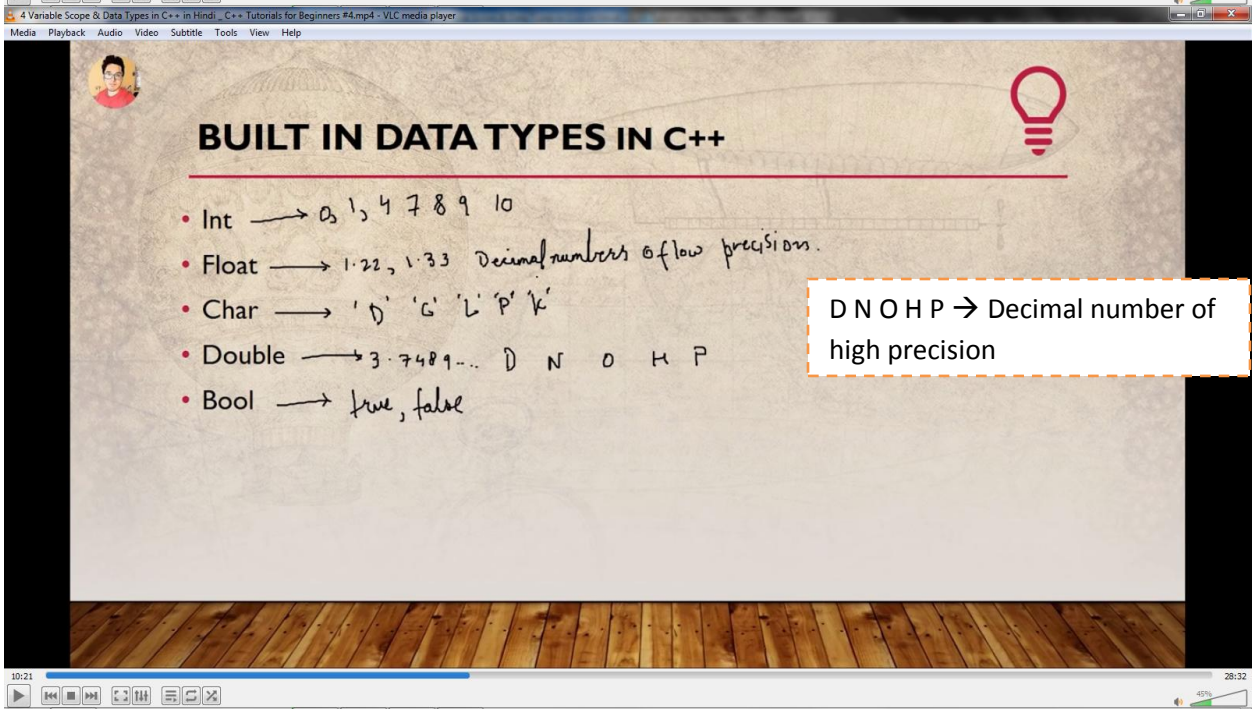
- **Data_type Variable_name = Value;** int a = 4; char letter = 'D';
- Ex. Int a =4, b=6;
- Based on Scope, variable can be classified into two types:
  1. Local Variables
  2. Global Variables

VARIABLE SCOPE

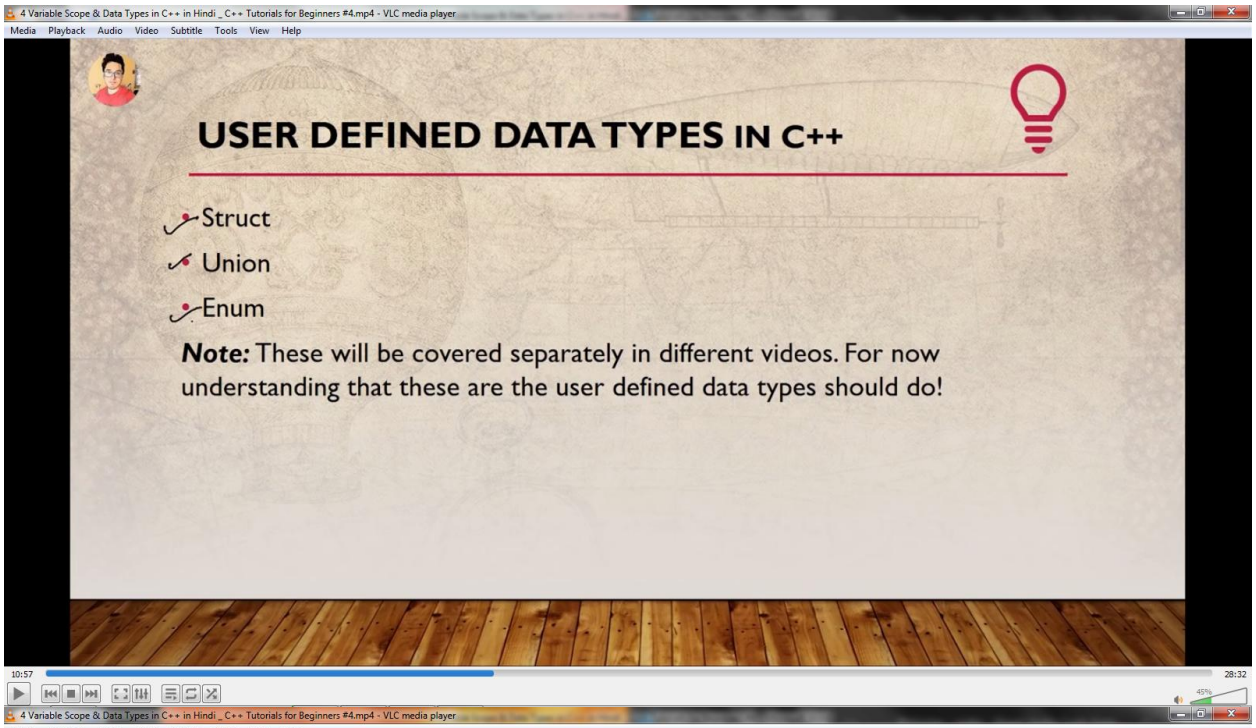


- Scope of a variable is the region in code where the existence of variable is valid.
- Based on scope we have local and global variables in C++
- **Local Variables:** Local variables are declared inside the braces of any function and can be accessed only from there.
- **Global Variables:** Global variables are declared outside any function and can be accessed from anywhere.
- **Can global and local variable have same name in C++?** :Yes, we will see!





D N O H P → Decimal number of high precision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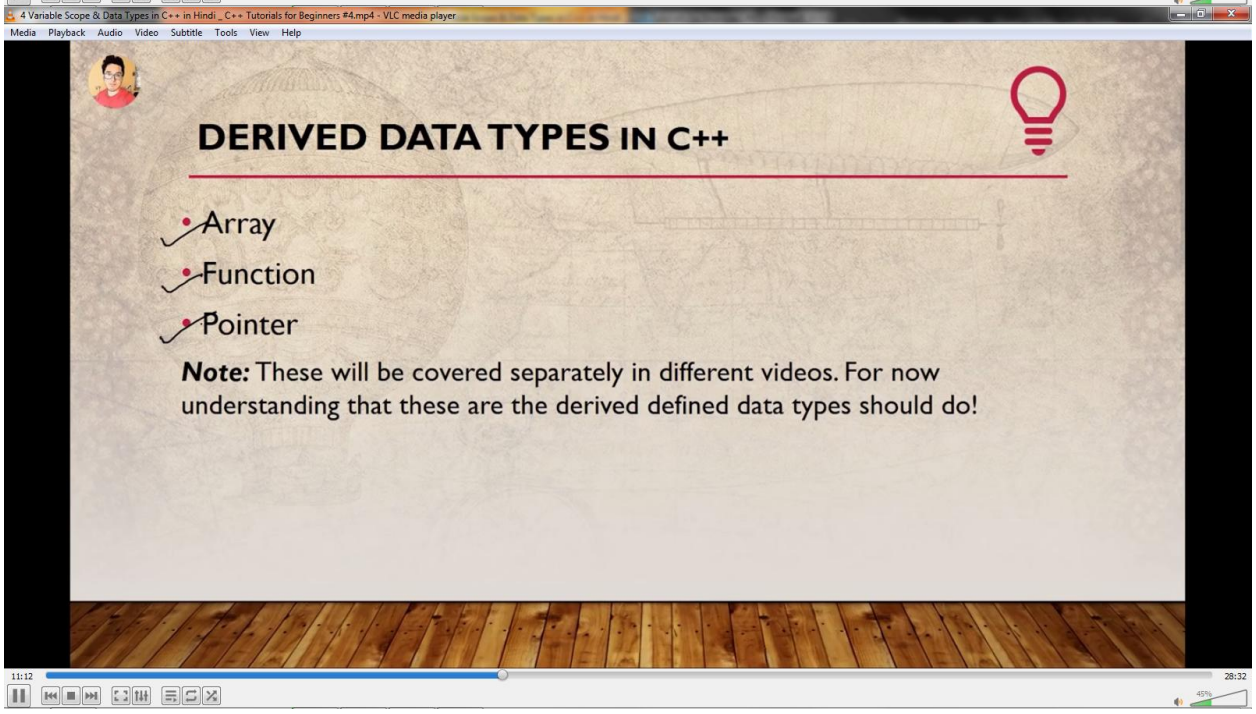
USER DEFINED DATA TYPES IN C++
Struct
Union
Enum
Note: These will be covered separately in different videos. For now understanding that these are the user defined data types should do!
10:57
28:32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DERIVED DATA TYPES IN C++
Array
Function
Pointer
Note: These will be covered separately in different videos. For now understanding that these are the derived defined data types should do!
11:12
28:32

RULES TO DECLARE VARIABLES IN C++

- Variable names in C++ can range from 1 to 255 characters.
- All variable names must begin with a letter of the alphabet or an underscore(_).
- After the first initial letter, variable names can also contain letters and numbers.
- Variable names are case sensitive.
- No spaces or special characters are allowed.
- You cannot use a C++ keyword (a reserved word) as a variable name.