Basic of C Programming

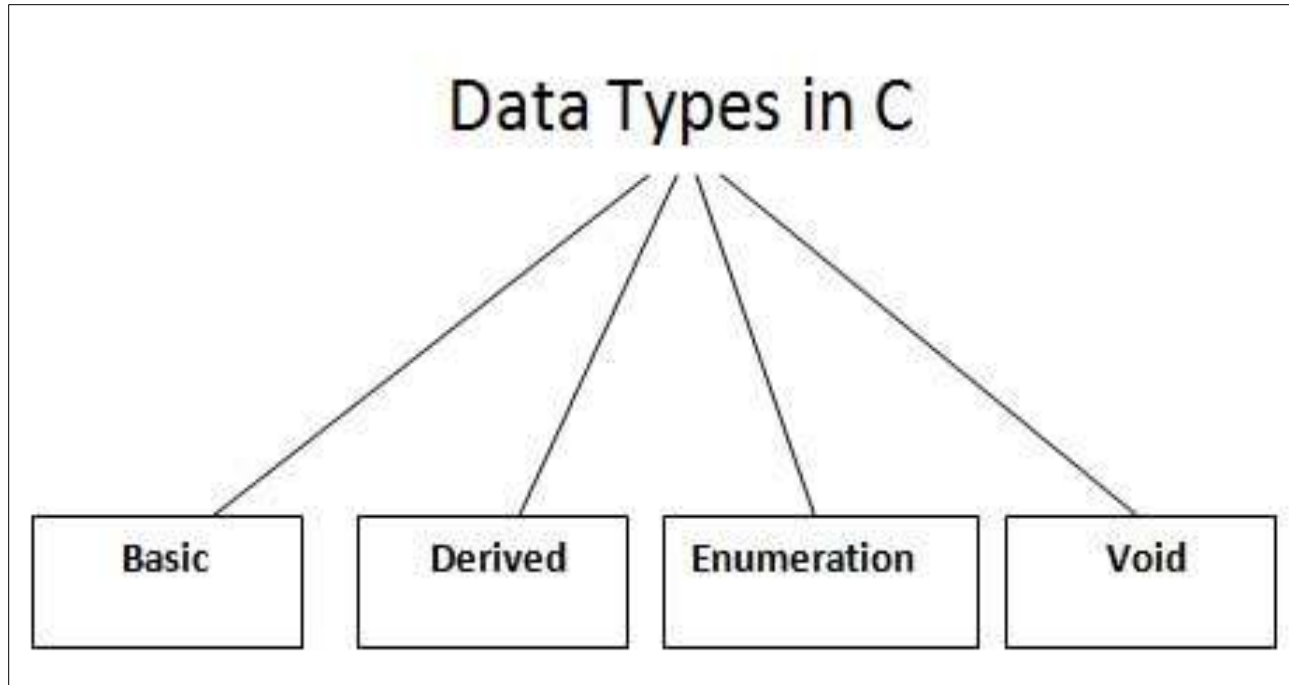## CONCEPTS OF DATA TYPES, KEYWORDS & OTHERS

Data Types in C -

- A data type specifies the type of data that a variable can store such as integer, floating, character etc.

Data Types in C

Basic	Derived	Enumeration	Void

Data Types in C -

- There are the following data types in C language –

Types	Data Types
Basic or Primitive Data Types	int, char, float, double
Derived or Aggregate Data Types	array, pointer, structure, union
User defined Data Type	enum
Void Data Type	void

Data Types in C -

- **Basic Data Types –**

The basic data types are integer-based and floating-point based. C language supports both signed and unsigned literals.

The memory size of the basic data types may change according to 32 or 64-bit operating system. Let's see the basic data types. Its size is given according to 32-bit architecture.

- **Note:** All other data types will discuss later.

Data Types in C -

Data Types	Memory Size	Range
char	1 byte	−128 to 127
int	2 byte	−32,768 to 32,767
float	4 byte	--
double	8 byte	--

Keywords in C -

- A keyword is a reserved word. You cannot use it as a variable name, constant name, etc.

- There are only 32 reserved words (keywords) in the C language.

Keywords in C -

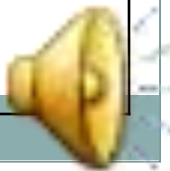| auto	break	case	char	const	continue	default	do
double	else	enum	extern	float	for	goto	if
int	long	register	return	short	signed	sizeof	static
struct	switch	typedef	union	unsigned	void	volatile	while

Comments in C -

- Comments in C language are used to provide information about lines of code. It is widely used for documenting code. There are 2 types of comments in the C language –

  - Single Line Comments

  - Multi-Line Comments

- *Single Line Comments* –	- *Multi Line Comments* -

#include<stdio.h>
 	
void main()
{
 	
   //printing information
   printf("Hello C");
}
	#include<stdio.h>
	
	void main()
	{
	   /*printing information
	   Multi-Line Comment*/
	   printf("Hello C");
	}

Escape Sequence in C -

- An escape sequence in C language is a sequence of characters that doesn't represent itself when used inside string literal or character.

- It is composed of two or more characters starting with backslash \.

- For example: \n represents new line.

Escape Sequence in C -

Escape Sequence	Meaning
\b	Backspace
\n	New Line
\t	Tab (Horizontal)
\v	Vertical Tab
\\	Backslash
\'	Single Quote
\"	Double Quote
\?	Question Mark
\0	Null

THANK YOU...