ASSIGNMENT 03

- 1. **Primitive Data Types** are those data types which are also **Keywords** i.e., **int**, **char**, **float**, **double**, **void**.
- 2. **Declaration Statements** can be written outside the function body.
- 3. The size of float type variable is **4 Bytes**.
- 4. The value of an Uninitialized Variable is **Garbage Value**.
- 5. The differences between float and double are: -
 - The size of float type variable is 4 bytes while the size of double type variable is 8 bytes.
 - float can store 32 bits of data whereas double can store 64 bits of data.
 - float is single precision data type and double is double precision data type which means it is two times precise than float.
- 6. ASCII stands for **American Standard Code for Information Interchange**.
- 7. **Keywords** are predefined words or reserved words whose meaning is already known by the Compiler

Functions are group of statements that performs specific task. It is a block of code which has some name for identification.

8. **Modifiers** are keywords which changes the meaning of basic data type in C. It specifies the amount of memory space to be allocated for a variable. Modifiers are prefixed with basic data types to modify the memory allocated for a variable.

There are two types of type modifiers:

- 1. **Size modifiers** short, long
- 2. **Sign modifiers** signed, unsigned

They can be further sub-divided into these four data type modifiers:

- 1. long / long long
- 2. short
- 3. signed
- 4. unsigned

Data Type	Size (in Bytes)	Meaning
signed int	4	Used for integers (equivalent to int).
unsigned int	4	Can only store non- negative integers.
short	2	Used for small integers. Range: -32768 to 32767

long	at least 4	Used for large integers. Equivalent to long int.
unsigned long	4	Used for large positive integers or 0. Equivalent to unsigned long int.
long long	8	Used for very large integers. Equivalent to long long int.
unsigned long long	8	Used for very large positive integers or 0. Equivalent to unsigned long long int.
long double	8	Used for large floating- point numbers.
signed char	1	Used for characters. Guaranteed range -127 to 127.
unsigned char	1	Used for characters. Range 0 to 255.

9. Yes, we can assign a character constant in an int variable because in C language character constants internally treated as integer constants as they stored to their corresponding ASCII Codes.

10. False.

Function is a block of code, but every block of code is not a function. Some are Decision Control Statements or Instructions (i.e., if, if-else) and some are Iterative/Repetitive Control Instructions or Loop (i.e., for, while, do while).