# Assignment - 3 C Language LIVE Community Classes MySirG.

# 1. What are the primitive data types in C Language?

**Answer** - int, char, double, float & void these are primitive data types in C Language.

### 2. What kind of statements can be written outside the function body?

**Answer-** we can write library's names (#include<stdio.h>) and we can declare global variables outside of the function body.

### 3. What is the size of the float type variable?

Answer- size of float type variable is 4 bytes.

#### 4. What is the value of an uninitialized variable?

**Answer-** Garbage value.

#### 5. What is the difference between float and double?

#### 6. What is the full form of ASCII?

**Answer:** American Standard Code for Information Interchange.

### 7. What is the difference between a keyword and a function?

**Answer:** A keyword is just part of syntax for ex: int a; , here int is keyword that indicates that variable a is integer type, and it get 4 bytes in memory, vs Functions are can be written to perform specific operation, when you call the function it perform or runs code written inside function,

### 8. Explore the use of type modifiers in C language:

**Answer:** Type modifiers are used to change characteristics of Data Type,

Some of the type modifiers are as per below-

**const**- once you write **const** before **int a=10**; , you cannot change value of that a variable **volatile-** variable value can only changed by external factors.

**signed-** Variable can hold negative value also (ex- temperature)

**unsigned-** Variable cannot hold negative valve (ex- age)

**long-** this specify the size of **int** datatype is larger

**short** - this specify the size of int datatype is short.

**\_Bool** - this modifier used to declare datatype that can hold only true or false values , here true= non zero value , false= zero

**\_Complex:** used to perform operations of complex number which are mix of Real and imaginary part for ex-

```
_Complex float a = 2.0f + 3.0fi;
_Complex float b = 1.0f - 1.0fi;
_Complex float result = a * b;
```

**\_lmaginary:** The \_lmaginary modifier is used to declare imaginary number variables for ex- \_lmaginary double z = 3.0i;

## Atomic:

The \_Atomic modifier is used to declare atomic data types.

**Register:** this modifier is used to suggest to the compiler to store a variable in a CPU register for faster access. However, modern compilers often ignore this suggestion as they perform optimizations automatically.

## 9. Can you assign a character constant in an int variable?

**Answer:** Yes, you can assign character constant in an int variable but it will store ASCII code for that character

10. State the following statement as true or false -"Every block of code is a function".

**Answer:** Nope because we can write { } sometime for if else conditions, while /for loop, But we can say that Every block of code is function when ' () ' used before blocks.