

Q.1 (a) what are differences b/w C++ structure and C++ classes? ①

Ans.

C++ structures

(1) In C++, a structure can have both variables and function as members. It can also declare some of its members as 'Private' so that they can't be accessed directly by the external functions.

(2) In C++, the structure name are stand alone and can be used like any other type names. means the keyword struct can be omitted in the declaration of structure variables. etc.

we can declare the student of variable A as student A;

C++ classes

(1) C++ incorporates all these extension in another user defined type known as class

(2) C++ classes can be used in place of C++ structure

(3) C++ programs tends to use the classes to hold both the data and functions.

(4) In C++ members of a class are private by default but the members of a structure are public by default.

(5) classes are used defined data types.

Ques (b) Difference b/w new/delete and malloc/free?

Ans. (1) C uses malloc and calloc function to allocate memory dynamically at run time but in C++ new is used to allocate the memory and uses the function free() to free dynamically allocated memory we use dynamic allocation technique when it is not known in advance how much of memory space is needed.