Unit II. Elementary Concept of Objects & . classes

- Class It is a blue print / template / prototype that describes the characteristics and behaviours for the similar types of objects
- Objects Objects are the entities which possess different characteristics and behaviouss for the similar types of objects.

Instantiation -> To create the object of a class

(class name) (object name) = New (class name)

Note - When class and, objects are used in programming · they are known as software dans and objects.

- + Some Meaningful terms,

 -> class is an object factory A class is to create ...

 -> Class is an object factory A class is to create ... Similar objects that possess different characteristics and common behaviours. Hence class is an object factory.
- -> Object is instance of a class- The data members the declared within a class one also known as instance variable. When an object of a class is created, it include instance variable declared within it. This is the Greason object is called instance of a class.

-> class is a user defined data type When user et creates a clars it becomes a data type for his program.
Thus class is referred to as a user defined data type. treferred. This datatype includes different primitive types such as int, flood, chan etc. Hence it is also said to Composite Data type.

Note

- 1) A class is described with some characteristics and behaviours where characteristics one termed as date member (Attributes) and behaviours as the member functions (member methods)
- (ii) Each object belonging to a class contains attributes (states) and functions.

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