Templates

*Templates* is one of the features added to C++ recently. It is a new concept which enables us to define generic classes and functions and thus provides support for *generic programming*.

Generic programming is an approach where generic types are used as parameters in algorithms so that they work for a variety of suitable data types and data structures.

Function Templates / Generic Function

Syntax:

template <class T>

returnType functionName(T para)

{

Function body …

…

}

Template Class

Syntax:

template <class T>

class ClassName

{

Class body…

…

ClassName(T var)

{

…

…

}

};