C++ notes

C++ is a general-purpose programming language that was developed as an enhancement of the C language to include object-oriented paradigm. It is an imperative and a compiled language.

Developed by Bjarne stroustoup

In 1979

C with classes

1983-C++

Feature of C++

C++ is a middle level Language

c++ Supports Principle of object oriented Paradigm C++ joins three seprate Programming traditions.

* The Procedural language tradition represented by C
* the object oriented language tradition represented by the class enhancements c++ add to c.
* genric Programming supported by c++ templates

Comparison between c and c++

* C++ is superset of c languages.
* C++ programs can use existing c software libraries.
* C follows top down approaches of programming.
* C++ Follows bottom up approach of Programming.
* C adopts procedure oriented programming .
* C++ adopt object Oriented Programming.

Introduction to c++

Object oriented Programming

OOPS is a Programming approach which revolves around the concept of object

Any entity in the system that can be defined as a set of Properties and set of operations performed using entity's Property set is known as object.

* Encapsulation
* Data Hiding
* Abstraction
* Polymorphism
* Inheritances

Classes and objects.

* Class is a blue print of an object=
* class is a description of objects property set and set of operation
* Creating class is as good as defining a new data type.
* Class is a means to achieve encapsulation
* Object is a runtime entitiy
* Object is an instance of class