C++ is an Object-Oriented Programming Language
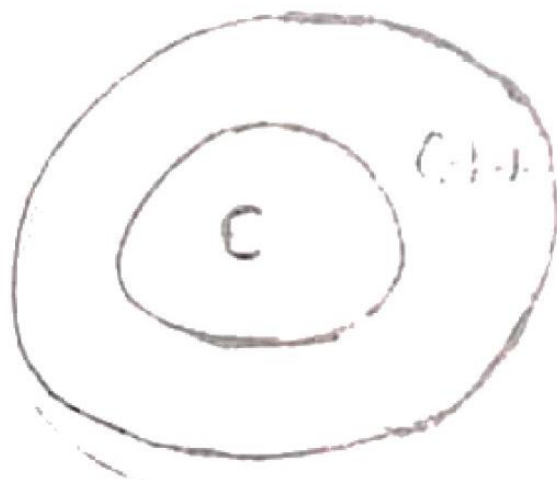
* It is developed by <u>Bjarne Stroustrup</u> at AT&T Bell Laboratories in 1979.

* Stroustrup initially called the new language 'C with classes'. However, later in 1983, the name to C++.

The idea of C++ comes from the C Increment Operator ++.

* C++ is a superset of C

* The most important facilities that C++ adds on to C are classes, Inheritance, function Overloading and Operator Overloading.

* C++ is a structure of Object Oriented Programming, So it Supports Concept of OOPs.

* C++ is a case sensitive. (Program written in small letter).

* .CPP is a Extension of C++ file

* Ctrl+F9 is used to Run the Program.

Simple C++ Program.

```
#include <iostream.h>
#include <conio.h>
void main()
{
clrscr(),
cout << "Hello world",
getch();
}.
```

* The above example contains only one function main()

* The only statement in above program is an output statement.

* The operator << is called the insertion or put to operator

* The header file iostream.h should be included at

C++ Syntax (Example - 1) (Basic Structure)

using namespace std; ——→ Namespace

#include < iostream> ——→ Library / header inclusion

int main ( ) ——→ main function (Int have return type)

```
{
    cout<< "hello world";  → used for Display the Output
    return 0;              → value must be returned at the end of main ( ).
}
```

// Basic Structure of C++ Program. (Example - 2)
(Run in TURBO C++)

#include < iostream. h> → Standard Input/output Stream

Pre-processor directive #include < conio.h> → Console Input/output (header fil

```
void main ( )
{
    clrscr();   ←———  Clear Screen (define in conio.h)
    cout<< "Hello World";
    getch();   ←  get character
}
```