

* Basic Program of C++

```
#include <iostream>
using namespace std; ← Built-in-object
    | Attach           | Block
int main()
{
    cout << "Hello World"; ← cont of data flow.
    | Buildin
}
return 0;
```

* iostream [input output stream] ← cont of data flow.
is Insertion operator " <<"

(ii) Extraction operator " >>"

(iii) " console output = "out"

(iv) " console input = "cin"

* Preprocessor

The tell the compiler that first pre-process (executes) the processor of importing a library / header file.

* Namespace

⇒ The std is short form of standard.
The std namespace contains the built-in classes & declared functions.

⇒ std::cout << "Hello World";

:: = Scope resolution operator.

= Membership Label operator.

* Variables

⇒ A container which store some data.

⇒ Examples : (mp3, book, tool box etc.)

* Data type

⇒ Data type are the type of data stored in a C program.

⇒ Data types are used to define which types of data will be stored in variable.

⇒ Category : 1 type of data.

Example

integer	:	0 to 9 → Numbers
float	:	point Numbers
char	:	Alphabets
String	:	Collection of Array "Hello"
boolean	:	True or False

* Primitive = int, char, float, boolean.

* Keyword : Reserved word which have specific meaning.

* Constant : A constant is kind of variable which value is fixed after initialization.

s) Constant always keep value unchanged.

s) Constant value can't be changed.

s) Using const keyword.

Ex : that thing universal scale proved & applied.

s pie : 3.1415.

* Rules : you never declare variable with const keyword.

- ⇒ You have assign value with initialization of variable.
- ⇒ const variable should be declared have capitalized as per global convention.

* Objects..

(i) cout object

- ⇒ The cout in C++ is an object of class iostream which defined in iostream header file.
- ⇒ It is used to display the output to the console.

- ⇒ the data needed to be displayed on screen is inserted in std output stream using the insertion operator (<<).

(ii) cin object.

- ⇒ The cin object in C++ is an object of class iostream which is defined in iostream header file.

c) It is used to display or accept the input from Standard input device Keyword.