```cpp
//this is the syntax of c++ and it is a case sensetive language
//syntax mean the rules of write the code
//the extention of c++ is --> .cpp

/*note -->
1)every line in c++ should end with (((;)))
    thats mean that the line is end and start the next line
2) if i found error in project  read about the error and try  to find the solution alone
3) any functions  have a type  should return the value of this type
4)any program in c++ sould contain a function ((((int main () {}))))
    just one main function and the case of letter --> int main (small letters)
    always the performed will start from the main
    any things just inside the main  function will performed
    and then call another functions / files from it
    if the compiler doesnt found the main function inside the file it will
    generate the error
5) the data type (string) should write  the valuse if it inside the  ""
*/

#include <iostream>
/*
#include means  involves all functions inside the library that is insde <>

iostream library --> input output stream
this library contains many functions and the important functions is --> 1) input  2) output from consol

 this line mean #include <iostream> -->
 get the library that related to iostream library (input/ output) to use it
*/



int  main() /*the world main is small letters --> case sensetive language */

{ //start Curly Braces for function main



    std::cout << "Hello World!\n";
    //std:: --> standard library that is inside the iostram library
    //cout --> consol out  means print
    //cout function inside std library that std library inside the iostream

    // you can print multiple message int the same line and inside one cout statment and And separate it using <<
            //ex --> std::cout<<"mess1"<<"mess2"<<"mess3";



    return 0;
} // end Curly Braces for function main

/*
            output (print text )

         std::cout<<"mess";

        //this statements means write the  message on the monitor

        std:: --> (standards library)
            means that print the output on the monitor
        cout --> (consol out)
            means print
        << --> (less than  character)
            means write
        "" -->double qutation
            means that every thing inside the "" will show like what it write / message
        ; --> (semicolons)
            means that this is the end of the statements

    note about cout statement -->
            cout statment after print the message it will not go to new line
            If you write multiple cout statements the result will be statement by statement   (Next to the other)
                            to solve this problem  use one of things -->
                                        new linse ways
                            1) "\n" --> means new line ((it is a space character that written inside "" ))
                                every time you write ("\n") it will go to new line
                            2) std::endl --> it is not inside ""
                                EX -->std::cout<<"mess"<<std::endl;



*/
```