First C++ Program

Example 1.1:

```
#include <iostream>
int main(int argc, char* argv[])
{
    //Single Line comment.

    /*
        Multiple line comments.
    */
        std::cout << "Hello, World!" << std::endl;
        return 0;
}</pre>
```

It is tradition to discuss a HelloWorld program in the start which will print the phrase "Hello, World!" to the output screen. So let us start discussing it. This is a small program but it contains many common features of all the C++ programs.

- 1. This program begins with "#include <iostream>":
 - a. This tells the compiler that we are going to use the functions defined in iostream file. Cpp language provide a number of predefined files, which contain functions that are commonly used by programmer. For example std::cout is defined inside iostream file which will be used to print "Hello, World!" to the output screen.
- 2. Next comes the method "int main(int argc, char* argv[])":
 - a. A method is a set of statements that are executed to give desire result.
 - b. **main()** is a special method of a class this is the entry point of the application.
 - c. The **int** keyword means that this method is going to return an integer value in our case it is 0.
- 3. Next are the comments, which are for readability of the program and are ignored by the compiler.
 - a. A **single line comment** begins with two forward slash //
 - b. A **multiline comment** begins with /* and ends with */.
- 4. "std::cout << "Hello, World!" << std::endl;", is a system provided

- operator(object) which will print "Hello, World!" to the standard output and will print next line char in the end.
- 5. In the end there is a "return 0;" which will give return value to the caller of the main function. Return statement is a way to pass the return value to the caller of the function.