Content 3

Variables & Comments in C++

We are going to cover two important concepts of C++ language:

* **Variables in C++**
* **Comments in C++**

Before explaining the concept of variables and comments, I would like to clarify two more ideas**: low level** and **high level.**To make it easy to understand, let's consider this scenario - when we go to Google search engine and search for some queries, Google displays us some websites according to our question. Google does this for us at a very high level. We don't know what's happening at the low level until we look into Google servers (at a low level) and further to the level where the data is in the form of 0s/1s. The point I want to make here is that low level means nearest to the hardware, and a high level means farther from the hardware with a lot of layers of abstraction.

#### Variables in C++

Variables are containers to store our data.

**Example:**

int b=14;

so here b is a Variable and used to store the value or address of 14.

#### Comments in C++

A comment is a human-readable text in the source code, which is ignored by the compiler. There are two ways to write comments.

There are two types of comments:

1. Single line:- Which has only one line.

way is to use" //" before a single line of text to make it unparsable by the compiler.

// This is a Single Line commment

1. Multi-Line Comment- Which has more than one line.

way is to use "/\*" as the opening and "\*/" as the closing of the comment. We then write text in between them. If we write text without this, the compiler will try to read the text and will end up giving an error.  Figure 1 shows examples of these comments.

/\* this

     Is a

  Multi-line comment\*/

**Code:**

1. #include<iostream>
2. using namespace std;
3. int main()
4. {   system("cls");  // This will clear the previous screen before the displaying new one
5. int b=14;
6. cout<<"You are Welcome \n";
7. cout<<"The value of b is: "<<b;
8. // This is a Single Line commment
9. /\* this
10. is
11. a multi-line comment\*/
12. return 0;
13. }

**Output:**

You are Welcome

The value of b is: 14

I had added some Comments in the above code like at line 6,line 10, line 11 but you see it doesn’t affect our output because even it is not readed by compiler.