

22/06/2020

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1. What is C++?

- C++ is a greater or general purpose programming language. C++ is used to create computer programs. Anything from art application music players is even video games.

- Hello world.

A C++ program is a connection of commands or string.

```
#include <iostream>
using namespace std;
int main ()
{
    cout << "Hello world";
    return 0;
}
```

* Getting the Tools:

You can run, save and share your C++ code on playground, without installing any additional software.

- 1) Integrated Development environment (IDE)
- 2) Compiler.

• Printing a Text:

You can add multiple insertion operators after

```
cout << "This" << " is" <<
"awesome!" ;
```


* Comments:

A comment beginning with two slashes (//) is called comments. The slashes tell the compiler to ignore everything that follows, until the end of the line.

```
#include <iostream>
using namespace std;
```

```
int main ()
```

```
{
```

```
    cout << "Hello world!";
```

```
    return 0;
```

```
}
```

* Variables:

Integer, a built in type, represents a whole number value. Define integer using the keyword int.

```
int myvariable = 10;
```

* Working with variables:

```
int a;
```

```
int b = 42;
```

```
a = 10;
```

```
b = 3;
```

* More on Variables:

Specifying the data type is required just when the variable is declared. After that the variable be used without referring to the data type.

```
int a;
```

```
a = 10;
```


Basic arithmetic operators:

Addition	+	$x + y$
Subtraction	-	$x - y$
Multiplication	*	$x * y$
Division	/	x / y
Modulus	%	$x \% y$

* Assignment and Increment operators:

The simple assignment operator (=) assigns the right side to the left side.

* Conditionals and loops

• The if statement.

The if statement is used to execute same code if a condition is true.

```
if (condition) {  
    statements  
}
```

• The else statement.

An if statement can be followed by an optional else statement which executes when the condition is false.

```
if (condition) {  
}  
else {  
}
```