C++ Example Code:

C++ Hello World ------------------------------------------------------

-Code to print out text on screen

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#include <iostream> // “Include” allows access to library, “iostream” is a library

Using namespace std;

int main()

{

cout<< “Hello World”<<endl;

Return 1;

}

C++ Basic Math w/ User Input--------------------------------------

-Code for basic user interface and basic mathematical arithmetic

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#include <iostream> // “Include” allows access to library, “iostream” is a library

Using namespace std;

int main()

{

Int x = 0;

Int y = 0;

Int answer = 0;

cin >> x;

cin >> y;

//Addition

answer = x + y;

cout<< answer<<endl;

//Subtraction

answer = x - y;

cout<<answer<<endl;

//Multiply

answer = x \* y;

cout<<answer<<endl;

//Division

answer = x/y;

cout<<answer<<endl;

Return 1;

}

C++ Loops -------------------------------------------------------------

-Code for basic loops

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#include <iostream>

Using namespace std;

int main()

{

for(int i = 1; i<=10; i++)

{

// first assign a number, true until, and

// i++, ++i, i+=1, or i=i+1 to increase by 1

cout << i<<” , ”;

}

cout <<endl; //Here we are just making a new line for the next loop

for (int i =7; i>=2; i--)

{

sleep(1);

cout << i << “ “ << flush; //flush

//We can also use cout << ‘\n’ for the same effect

}

for(int i=5; i<=1024; i=i\*2) //(i = i \* 2) = (i \*= 2) → multiplies i by 2 for every run

{

cout << i << ‘ ‘;

}

}

C++ Functions --------------------------------------------------

-Code for basic functions

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//This function takes in two numbers and adds them

#include <iostream>

using namespace std;

int add(int a, int b) //A function follows the format: <return type> <name><parameters>

{

return a+b;

}

int main()

{

cout << add(2,3) << ‘\n’;

return 0;

}