**Source code (Hello world!):**

AlfredoVargas_Practice1_helloWorld_2025_03_11.cpp

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

int main(){
    cout << "Hello world! " << endl;

    return 0;
}
```

**Output:**

```
(3.10.10) nicolasvargas@Nicolass-Laptop nico % clang++ AlfredoVargas_Pra
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./out
Hello world!
```

**Second Source Code (Hello Reader)**

AlfredoVargas_Practice1_helloReader_2025_03_11.cpp

```cpp
#include<iostream>  //include the library for cin cout
using namespace std;   //let's avoid writting std::

int main(){
    int numberOfLanguage;   // Variable for the experience
    cout << "Hello Reader!" << endl;
    cout << "Welcome to the C++ programming language Pro Book" << endl;
    cout << "Before we begging, it is very important to know your previews experience" << endl;

    cout<< "Please tell me how many programming languages do you know: " << endl;
    cin >> numberOfLanguage;
// we star or conditional, if the reader does not have experices, he/she should get another book
    if(numberOfLanguage < 1){
        cout << "Please get a begginers book from the same Author, this is a pro book" << endl;
    }
    else{  // if numberOfLanguage is greater than one, then go ahead.
        cout << "Enjoy the book" << endl;
    }


    return 0;
}
```

**Second output (Hello Reader:)**

```
Hello Reader!
Welcome to the C++ programming language Pro Book
Before we begging, it is very important to know your previews experience
Please tell me how many programming languages do you know:
0
Please get a begginers book from the same Author, this is a pro book
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./out
Hello Reader!
Welcome to the C++ programming language Pro Book
Before we begging, it is very important to know your previews experience
Please tell me how many programming languages do you know:
10
Enjoy the book
```

**Third source code (Integers swap):**

AlfredoVargas_Practice1_twointegers_2025_03_11.cpp > main()

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

int main(){
    int a, b;

    cout << "Input the first number: " << endl;
    cin >> a;
    cout << "Input the second number: " << endl;
    cin >> b;
//this is simpler to see if you provide some values to a and b, let a =1 b =2
    a = a + b;  // now a = 3
    b = a - b; // now b = 1
    a = a - b; // now a = 2

    cout<< "now the first digit is: " << a << " and the second is: " << b << endl; //print the resul

    return 0;
}
```

**Integers swap Output:**

```
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./out
Input the first number:
10
Input the second number:
20
now the first digit is: 20 and the second is: 10
(3.10.10) nicolasvargas@Nicolass-Laptop nico %
```

**Code number 4 (Seconds to hours, minutes and remainding seconds) Source code:**

AlfredoVargas_Practice1_seconds_to_hours_2025_03_11.cpp

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

int main(){
    int seconds, hour, minutes;

    cout << "how many seconds do you have? ";
    cin >> seconds;
    hour = seconds / 3600;   // #3600 seconds are 1 hour
    minutes = seconds/60 - hour*60; // we substrac the hours and then we get the seconds
    cout << "the amount of hour(s) is: " << hour << endl;  //print the ours
    cout << "the amount of minutes is: " << minutes << endl;
    cout << "the amount of seconds is: " << seconds % 60 << endl; // the remainder of the divitions are the seconds
    return 0;
}
```

**output:**

```
(3.10.10) nicolasvargas@Nicolass-Laptop nico % clang++ AlfredoVargas_Practice1_seconds_to_hours_2025_03_11.cpp -o out
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./
zsh: permission denied: ./
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./out
how many seconds do you have? 3666
the amount of hour(s) is: 1
the amount of minutes is: 1
the amount of seconds is: 6
(3.10.10) nicolasvargas@Nicolass-Laptop nico %
```

**Code number 5 (Dolars to Euros):**

AlfredoVargas_Practice1_conversor_2025_03_11.cpp > main()

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

int main(){
    int dolars, euros;
    float conversor;
    conversor = 0.92;  //this is the convertion factor
    cout << "How many Dolars do you have? ";
    cin >> dolars;
    euros = dolars * conversor;  //d                ion

    cout << "Then if you have: " << dolars << "then you have: " <<  euros << " Euros." << endl;
    //print the result


    return 0;
}
```

int dolars

dolars

**Output:**

```
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./out
How many Dolars do you have? 1000
Then if you have: 1000then you have: 920 Euros.
(3.10.10) nicolasvargas@Nicolass-Laptop nico %
```

**Source code number 6 (temperature):**

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

int main(){
    float fahrenheit, celsius;

    cout << "how many degree farenheits do you have: " <<endl;
    cin >> fahrenheit;
    celsius = (fahrenheit - 32) * 5.0 / 9.0;  //this is the formula for the convertion
    cout << "Then that is equal to: " << celsius <<endl; //print the result

    return 0;
}
```

**Output:**

```
(3.10.10) nicolasvargas@Nicolass-Laptop nico % clang++ AlfredoVargas_Practice1_temperature_2025_03_11.cpp -o out
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./out
how many degree farenheits do you have:
32
Then that is equal to: 0
(3.10.10) nicolasvargas@Nicolass-Laptop nico %
```