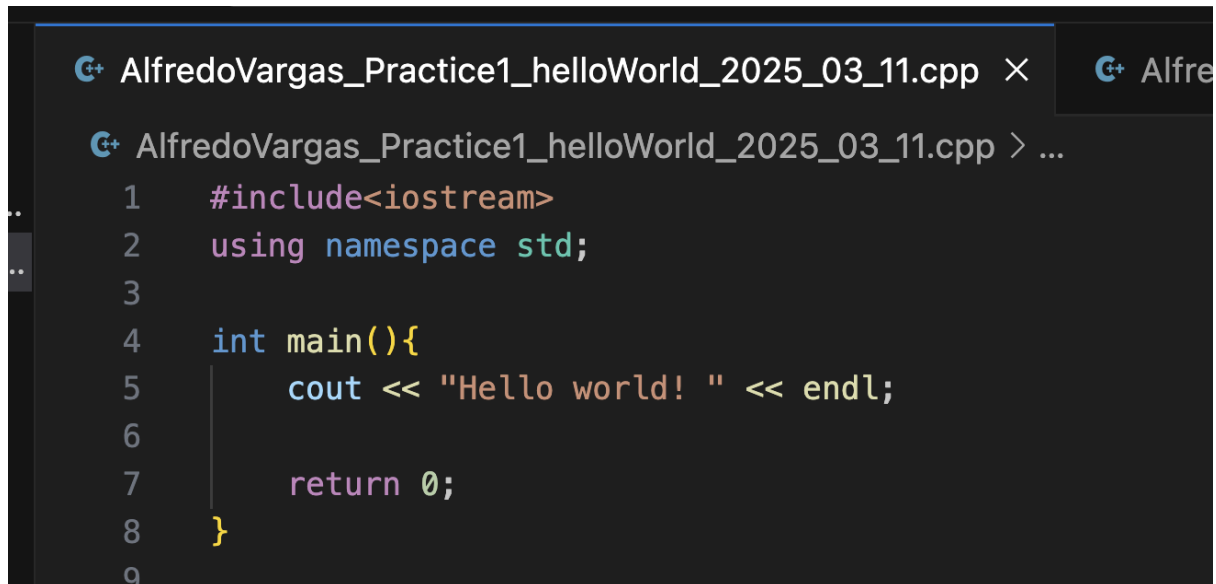


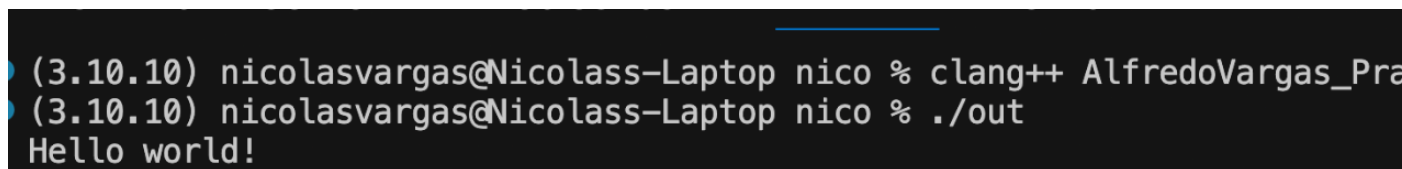
Source code (Hello world!):



The screenshot shows a C++ IDE with a single file named 'AlfredoVargas\_Practice1\_helloWorld\_2025\_03\_11.cpp'. The code is as follows:

```
1  #include<iostream>
2  using namespace std;
3
4  int main(){
5      cout << "Hello world! " << endl;
6
7      return 0;
8  }
```

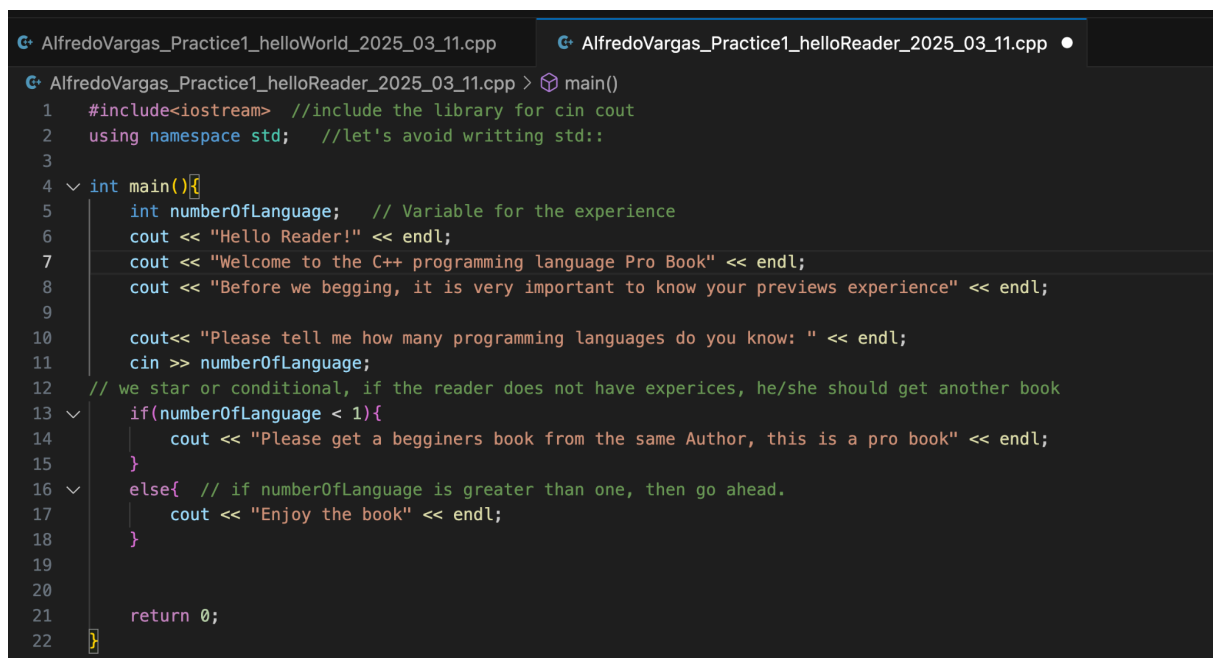
Output:



The screenshot shows a terminal window with the following commands and output:

```
(3.10.10) nicolasvargas@Nicolass-Laptop nico % clang++ AlfredoVargas_Practice1_helloWorld_2025_03_11.cpp
(3.10.10) nicolasvargas@Nicolass-Laptop nico % ./out
Hello world!
```

Second Source Code (Hello Reader)



The screenshot shows a C++ IDE with two files. The active file is 'AlfredoVargas\_Practice1\_helloReader\_2025\_03\_11.cpp'. The code is as follows:

```
1  #include<iostream> //include the library for cin cout
2  using namespace std; //let's avoid writting std::
3
4  int main(){
5      int numberOfLanguage; // Variable for the experience
6      cout << "Hello Reader!" << endl;
7      cout << "Welcome to the C++ programming language Pro Book" << endl;
8      cout << "Before we begging, it is very important to know your previews experience" << endl;
9
10     cout<< "Please tell me how many programming languages do you know: " << endl;
11     cin >> numberOfLanguage;
12     // we star or conditional, if the reader does not have experices, he/she should get another book
13     if(numberOfLanguage < 1){
14         cout << "Please get a begginers book from the same Author, this is a pro book" << endl;
15     }
16     else{ // if numberOfLanguage is greater than one, then go ahead.
17         cout << "Enjoy the book" << endl;
18     }
19
20
21     return 0;
22 }
```

Second output (Hello Reader:)

```

(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:
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
(3.10.10) nicolasvargas@Nicolass-Laptop nico %

```

### Third source code (Integers swap):

```

AlfredoVargas_Practice1_twointegers_2025_03_11.cpp > main()
1  #include<iostream>
2  using namespace std;
3
4  int main()
5  {
6      int a, b;
7
8      cout << "Input the first number: " << endl;
9      cin >> a;
10     cout << "Input the second number: " << endl;
11     cin >> b;
12     //this is simpler to see if you provide some values to a and b, let a =1 b =2
13     a = a + b; // now a = 3
14     b = a - b; // now b = 1
15     a = a - b; // now a = 2
16
17     cout << "now the first digit is: " << a << " and the second is: " << b << endl; //print the result
18
19     return 0;
20 }

```

### Integers swap Output:

```

(3.10.10) nicolasvargas@Nicolass-Laptop nico % clang++ AlfredoVargas_Practice1_twointegers_2025_03_11.cpp -o out
(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 remaining seconds) Source code:

```
AlfredoVargas_Practice1_seconds_to_hours_2025_03_11.cpp × AlfredoVargas_Practice1_twointegers_2025_03_11.cpp
AlfredoVargas_Practice1_seconds_to_hours_2025_03_11.cpp > main()
1  #include<iostream>
2  using namespace std;
3
4  int main(){
5      int seconds, hour, minutes;
6
7      cout << "how many seconds do you have? ";
8      cin >> seconds;
9      hour = seconds / 3600; // #3600 seconds are 1 hour
10     minutes = seconds/60 - hour*60; // we substrac the hours and then we get the seconds
11     cout << "the amount of hour(s) is: " << hour << endl; //print the ours
12     cout << "the amount of minutes is: " << minutes << endl;
13     cout << "the amount of seconds is: " << seconds % 60 << endl; // the remainder of the divitions
14     //are the seconds
15     return 0;
16 }
```

#### 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()
1  #include<iostream>
2  using namespace std;
3
4  int main(){
5      int dolars, euros;
6      float conversor;
7      conversor = 0.92; //this is the conversion factor
8      cout << "How many Dolars do you have? ";
9      cin >> dolars;
10     euros = dolars * conversor; //dolars conversion
11
12     cout << "Then if you have: " << dolars << "then you have: " << euros << " Euros." << endl;
13     //print the result
14
15
16     return 0;
17 }
18
```

#### Output:

```
(3.10.10) nicolasvargas@Nicolass-Laptop nico % clang++ AlfredoVargas_Practice1_conversor_2025_03_11.cpp -o out
(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):

```
Alfredovargas_Practice1_temperature_2025_03_11.cpp / main()
1  #include<iostream>
2  using namespace std;
3
4  int main(){
5      float fahrenheit, celsius;
6
7      cout << "how many degree farenheits do you have: " <<endl;
8      cin >> fahrenheit;          (double)(5.0)
9      celsius = (fahrenheit - 32) * 5.0 / 9.0; //this is the formula for the conversion
10     cout << "Then that is equal to: " << celsius <<endl; //print the result
11
12     return 0;
13 }
14
```

### Output:

```
then if you have: 100then you have: 320 Euros.
(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 %
```