



TECNOLÓGICO NACIONAL DE MÉXICO CAMPUS REYNOSA

TEMA: UNIDAD 2

DOCENTE: MIRIAM PUENTE JIMENEZ

MATERIA: PROGRAMACIÓN BÁSICA

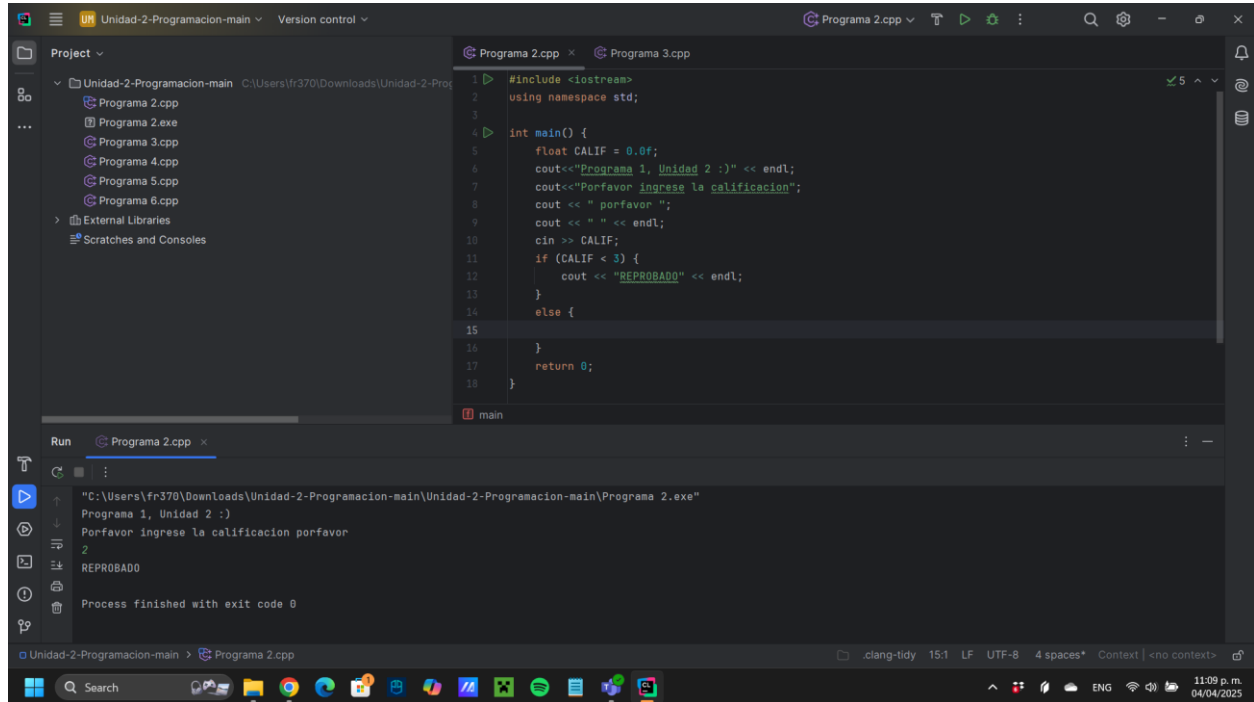
ALUMNO: FERNANDO RAMOS COTA

NUMERO DE CONTROL: 24580111

FECHA DE ENTREGA: 28 DE FEBRERO DE 2025

INGENIERIA MECATRÓNICA

# Programa 1



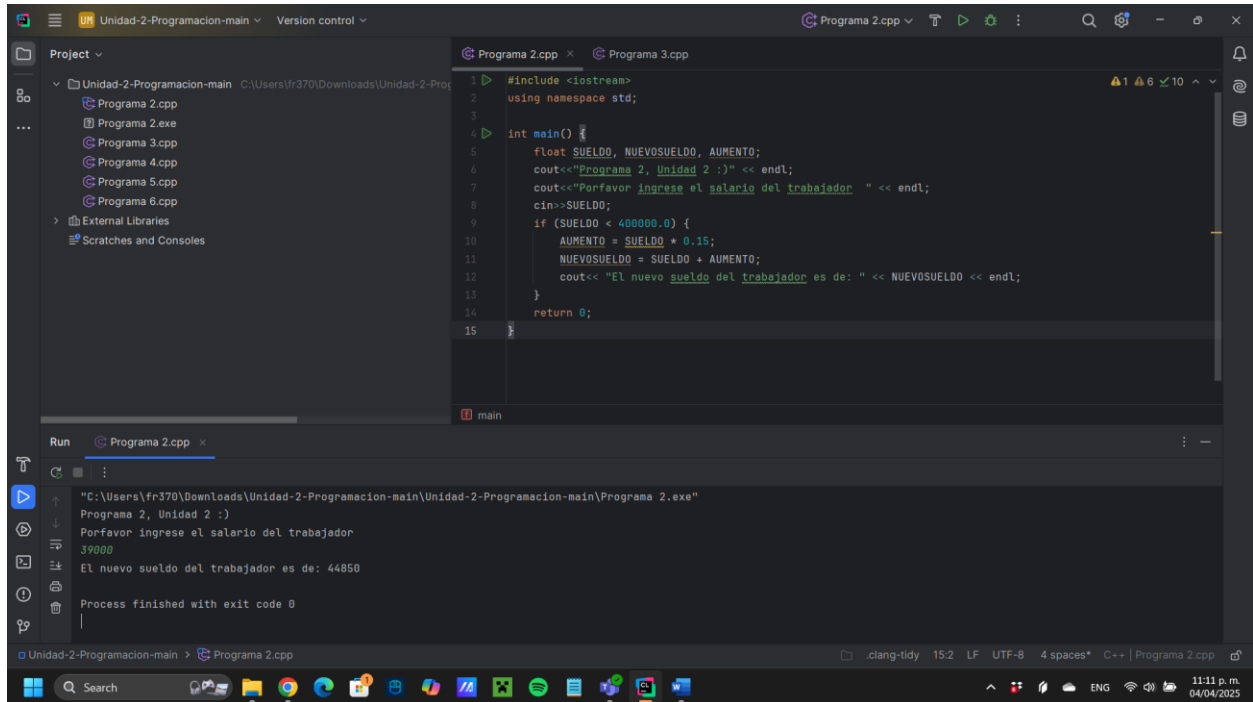
The screenshot shows a C++ IDE with the following components:

- Project Explorer:** Displays the project structure for 'Unidad-2-Programacion-main'. It includes files: Programa 2.exe, Programa 2.cpp, Programa 3.cpp, Programa 4.cpp, Programa 5.cpp, Programa 6.cpp, External Libraries, and Scratches and Consoles.
- Code Editor:** Shows the source code for 'Programa 2.cpp'. The code is as follows:

```
1 > #include <iostream>
2 using namespace std;
3
4 > int main() {
5     float CALIF = 0.0f;
6     cout<<"Programa 1, Unidad 2 :)" << endl;
7     cout<<"Porfavor ingrese la calificacion";
8     cout << " " << endl;
9     cin >> CALIF;
10    if (CALIF < 3) {
11        cout << "REPROBADO" << endl;
12    }
13    else {
14
15    }
16    }
17    return 0;
18 }
```
- Run Console:** Shows the execution output for 'Programa 2.exe'. The output is:

```
"C:\Users\fr370\Downloads\Unidad-2-Programacion-main\Unidad-2-Programacion-main\Programa 2.exe"
Programa 1, Unidad 2 :)
Porfavor ingrese la calificacion porfavor
2
REPROBADO
Process finished with exit code 0
```
- Status Bar:** Shows the compiler as '.clang-tidy', version '15.1', with settings 'LF', 'UTF-8', and '4 spaces\*'. It also includes a 'Context' menu and a link to '<no context>'. The system clock at the bottom right indicates '11:09 p.m. 04/04/2025'.

## Programa 2



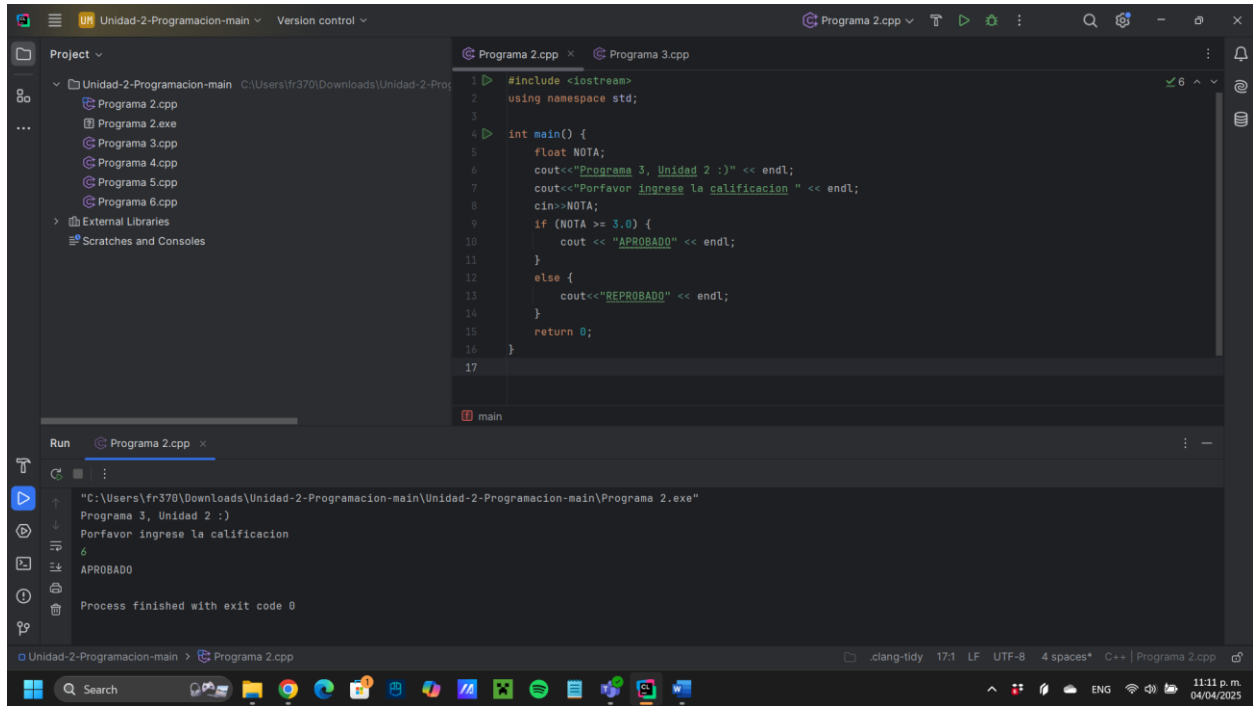
The screenshot shows a C++ IDE with the following components:

- Project Explorer:** Displays the project structure for 'Unidad-2-Programacion-main', including files like Programa 2.cpp, Programa 2.exe, Programa 3.cpp, Programa 4.cpp, Programa 5.cpp, Programa 6.cpp, External Libraries, and Scratches and Consoles.
- Editor:** Shows the code for 'Programa 2.cpp'. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     float SUELDO, NUEVOSUELDO, AUMENTO;
6     cout<<"Programa 2, Unidad 2 :)" << endl;
7     cout<<"Porfavor ingrese el salario del trabajador " << endl;
8     cin>>SUELDO;
9     if (SUELDO < 400000.0) {
10         AUMENTO = SUELDO * 0.15;
11         NUEVOSUELDO = SUELDO + AUMENTO;
12         cout<< "El nuevo sueldo del trabajador es de: " << NUEVOSUELDO << endl;
13     }
14     return 0;
15 }
```
- Run Console:** Displays the execution output for 'Programa 2.cpp'. The output is:

```
"C:\Users\fr370\Downloads\Unidad-2-Programacion-main\Unidad-2-Programacion-main\Programa 2.exe"
Programa 2, Unidad 2 :)
Porfavor ingrese el salario del trabajador
39000
El nuevo sueldo del trabajador es de: 44850
Process finished with exit code 0
```
- Status Bar:** Shows the current file is 'Programa 2.cpp' with settings like 'clang-tidy', '15.2', 'LF', 'UTF-8', '4 spaces', and 'C++'.

## Programa 3



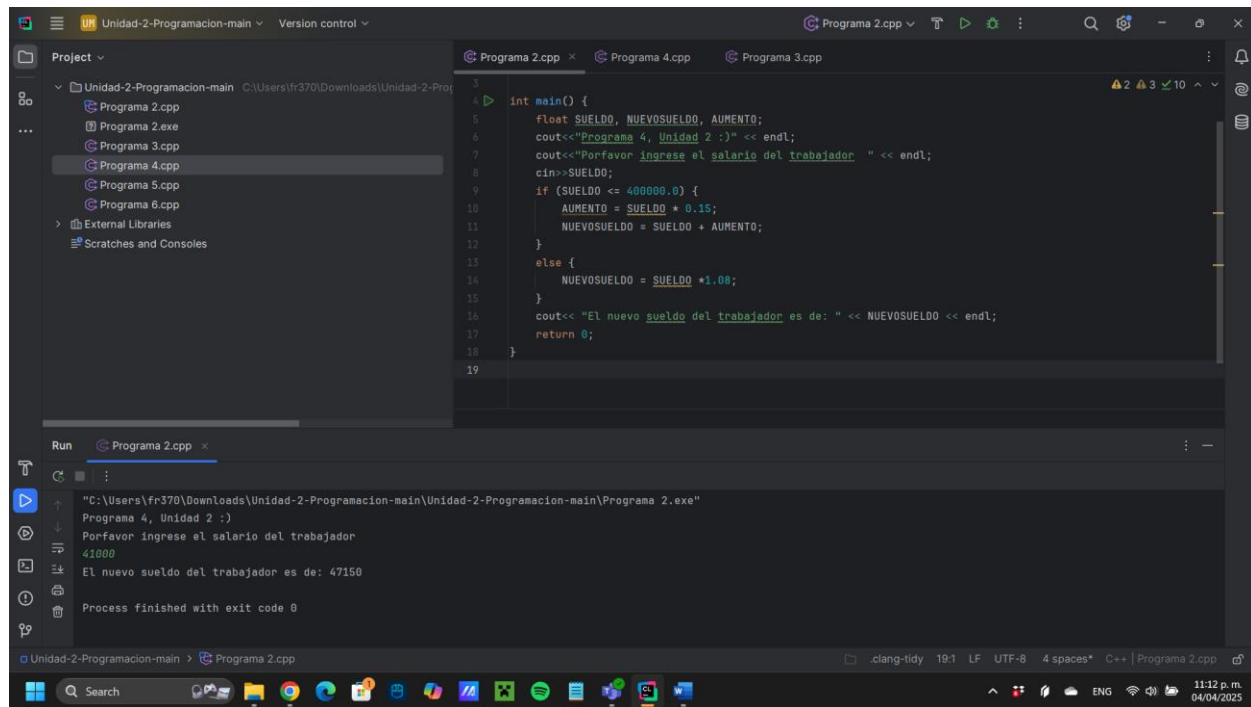
The screenshot shows a C++ IDE with the following components:

- Project Explorer:** Displays the project structure for 'Unidad-2-Programacion-main'. It includes files like Programa 2.cpp, Programa 2.exe, Programa 3.cpp, Programa 4.cpp, Programa 5.cpp, Programa 6.cpp, External Libraries, and Scratches and Consoles.
- Code Editor:** Shows the source code for 'Programa 3.cpp'. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     float NOTA;
6     cout<<"Programa 3, Unidad 2 :)" << endl;
7     cout<<"Porfavor ingrese la calificacion " << endl;
8     cin>>NOTA;
9     if (NOTA >= 3.0) {
10         cout << "APROBADO" << endl;
11     }
12     else {
13         cout<<"REPROBADO" << endl;
14     }
15     return 0;
16 }
17
```
- Run Console:** Displays the output of the program execution. The output is:

```
"C:\Users\fr370\Downloads\Unidad-2-Programacion-main\Unidad-2-Programacion-main\Programa 2.exe"
Programa 3, Unidad 2 :)
Porfavor ingrese la calificacion
6
APROBADO
Process finished with exit code 0
```
- Status Bar:** Shows the current file is 'Programa 2.cpp' using 'clang-tidy' with settings: 17:1, LF, UTF-8, 4 spaces, C++.

## Programa 4



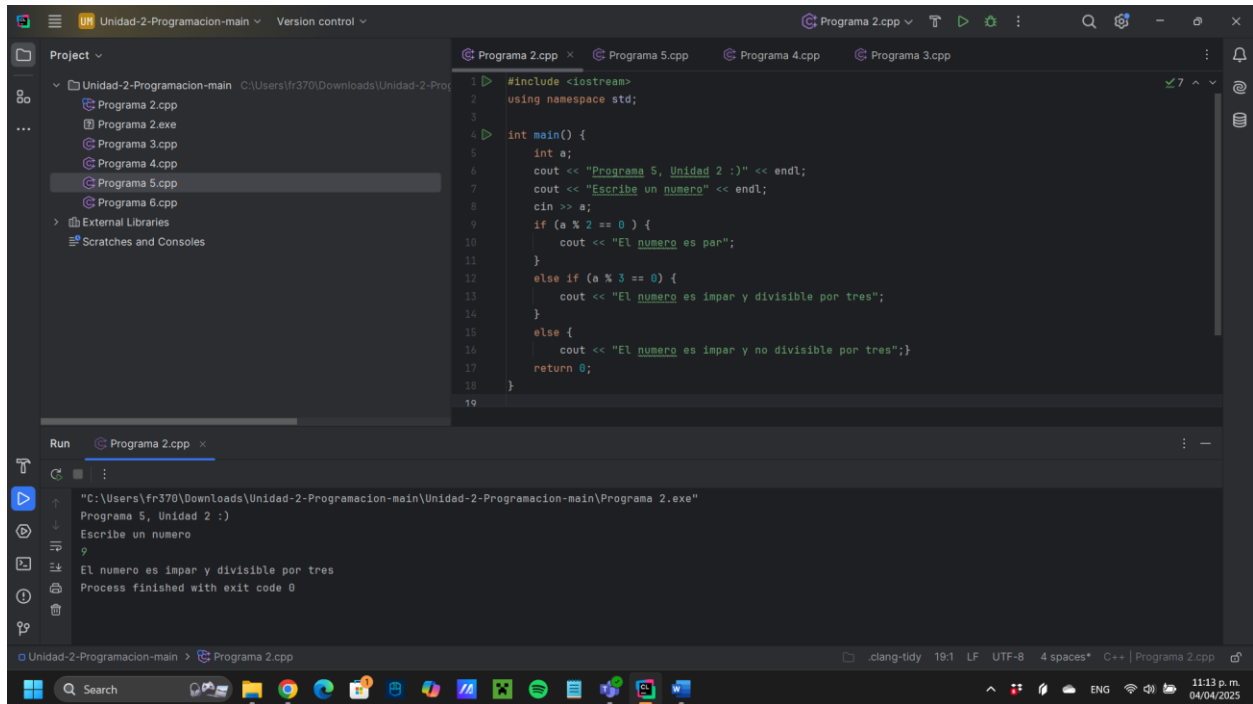
The screenshot displays a C++ IDE with the following components:

- Project Explorer:** Shows a project named "Unidad-2-Programacion-main" containing files: Programa 2.cpp, Programa 2.exe, Programa 3.cpp, Programa 4.cpp (selected), Programa 5.cpp, Programa 6.cpp, External Libraries, and Scratches and Consoles.
- Code Editor:** Displays the code for Programa 2.cpp:

```
3  
4 int main() {  
5     float SUELDO, NUEVOSUELDO, AUMENTO;  
6     cout<<"Programa 4, Unidad 2 :)" << endl;  
7     cout<<"Porfavor ingrese el salario del trabajador " << endl;  
8     cin>>SUELDO;  
9     if (SUELDO <= 400000.0) {  
10        AUMENTO = SUELDO * 0.15;  
11        NUEVOSUELDO = SUELDO + AUMENTO;  
12    }  
13    else {  
14        NUEVOSUELDO = SUELDO *1.08;  
15    }  
16    cout<< "El nuevo sueldo del trabajador es de: " << NUEVOSUELDO << endl;  
17    return 0;  
18 }  
19
```
- Run Console:** Shows the execution output:

```
"C:\Users\fr370\Downloads\Unidad-2-Programacion-main\Unidad-2-Programacion-main\Programa 2.exe"  
Programa 4, Unidad 2 :)  
Porfavor ingrese el salario del trabajador  
41000  
El nuevo sueldo del trabajador es de: 47150  
Process finished with exit code 0
```
- Status Bar:** Indicates the compiler is "clang-tidy", version "19.1", with settings "LF", "UTF-8", "4 spaces\*", and "C++". The file is "Programa 2.cpp".
- Taskbar:** Shows the Windows taskbar with various application icons and the system clock displaying "11:12 p.m. 04/04/2025".

## Programa 5



The screenshot shows a C++ IDE with a project named "Unidad-2-Programacion-main". The project structure includes files "Programa 2.cpp", "Programa 2.exe", "Programa 3.cpp", "Programa 4.cpp", and "Programa 5.cpp". The "Programa 2.cpp" file is open, displaying the following code:

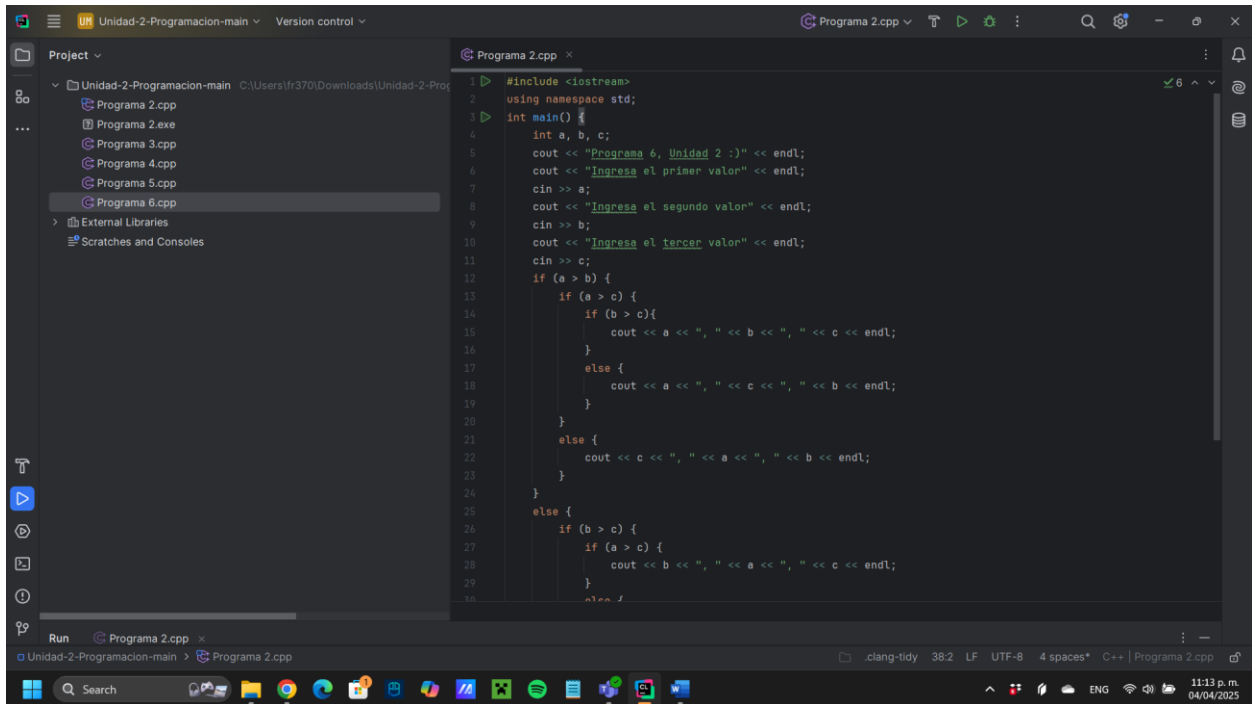
```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int a;
6     cout << "Programa 5, Unidad 2 :)" << endl;
7     cout << "Escribe un numero" << endl;
8     cin >> a;
9     if (a % 2 == 0) {
10         cout << "El numero es par";
11     }
12     else if (a % 3 == 0) {
13         cout << "El numero es impar y divisible por tres";
14     }
15     else {
16         cout << "El numero es impar y no divisible por tres";
17     }
18     return 0;
19 }
```

The "Run" output window shows the execution of "Programa 2.exe" at the path "C:\Users\fr370\Downloads\Unidad-2-Programacion-main\Unidad-2-Programacion-main\Programa 2.exe". The output is as follows:

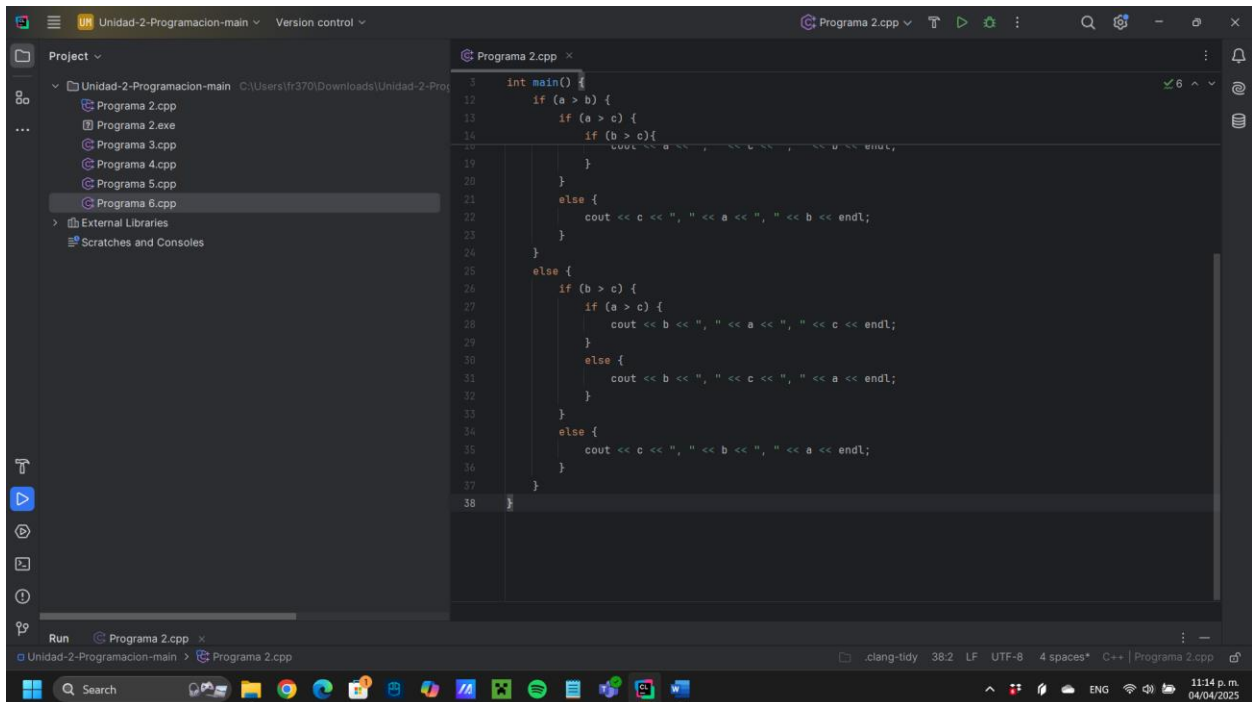
```
Programa 5, Unidad 2 :)
Escribe un numero
9
El numero es impar y divisible por tres
Process finished with exit code 0
```

The status bar at the bottom indicates the file is "Programa 2.cpp" using ".clang-tidy" with "19:1" lines, "LF" line endings, "UTF-8" encoding, and "4 spaces\*" indentation. The system clock shows "11:13 p.m." on "04/04/2025".

## Programa 6



```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int a, b, c;
5     cout << "Programa 6, Unidad 2 :)" << endl;
6     cout << "Ingresa el primer valor" << endl;
7     cin >> a;
8     cout << "Ingresa el segundo valor" << endl;
9     cin >> b;
10    cout << "Ingresa el tercer valor" << endl;
11    cin >> c;
12    if (a > b) {
13        if (a > c) {
14            if (b > c) {
15                cout << a << ", " << b << ", " << c << endl;
16            }
17            else {
18                cout << a << ", " << c << ", " << b << endl;
19            }
20        }
21        else {
22            cout << c << ", " << a << ", " << b << endl;
23        }
24    }
25    else {
26        if (b > c) {
27            if (a > c) {
28                cout << b << ", " << a << ", " << c << endl;
29            }
30        }
31    }
32 }
```



```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int a, b, c;
5     cout << "Programa 6, Unidad 2 :)" << endl;
6     cout << "Ingresa el primer valor" << endl;
7     cin >> a;
8     cout << "Ingresa el segundo valor" << endl;
9     cin >> b;
10    cout << "Ingresa el tercer valor" << endl;
11    cin >> c;
12    if (a > b) {
13        if (a > c) {
14            if (b > c) {
15                cout << a << ", " << b << ", " << c << endl;
16            }
17            else {
18                cout << a << ", " << c << ", " << b << endl;
19            }
20        }
21        else {
22            cout << c << ", " << a << ", " << b << endl;
23        }
24    }
25    else {
26        if (b > c) {
27            if (a > c) {
28                cout << b << ", " << a << ", " << c << endl;
29            }
30            else {
31                cout << b << ", " << c << ", " << a << endl;
32            }
33        }
34        else {
35            cout << c << ", " << b << ", " << a << endl;
36        }
37    }
38 }
```

```
Run  Programa 2.cpp x
"\"C:\\Users\\fr370\\Downloads\\Unidad-2-Programacion-main\\Unidad-2-Programacion-main\\Programa 2.exe\"
Programa 6, Unidad 2 :)
Ingresar el primer valor
3
Ingresar el segundo valor
5
Ingresar el tercer valor
6
6, 5, 3

Process finished with exit code 0
```