

PROGRAMACION FUNCIONAL
RODRIGUEZ MORENO MARCO ANTONIO
Aarón Hernández García

Actividad 3.1

01/02/2025

Código:

```
using namespace std;
```

```
int main() {
```

```
    double num1, num2;
```

```
    char operacion;
```

```
    cout << "Calculadora en C++" << endl;
```

```
    cout << "Ingrese el primer número: ";
```

```
    cin >> num1;
```

```
    cout << "Ingrese el operador (+, -, *, /): ";
```

```
    cin >> operacion;
```

```
    cout << "Ingrese el segundo número: ";
```

```
    cin >> num2;
```

```
    switch (operacion) {
```

```
        case '+':
```

```
            cout << "Resultado: " << num1 + num2 << endl;
```

```
            break;
```

```
        case '-':
```

```
            cout << "Resultado: " << num1 - num2 << endl;
```

```
            break;
```

```
        case '*':
```

```
            cout << "Resultado: " << num1 * num2 << endl;
```

```
            break;
```

```
        case '/':
```

```
            if (num2 != 0)
```

```
        cout << "Resultado: " << num1 / num2 << endl;
    else
        cout << "Error: División por cero no permitida." << endl;
        break;
    default:
        cout << "Operador no válido." << endl;
}

return 0;
}
```

The image shows a C++ IDE with a dark theme. The top toolbar includes icons for file operations, a 'Run' button, 'Debug', 'Stop', 'Share', 'Save', 'Beautify', and a download icon. The editor window displays the source code for 'main.cpp', which is a simple calculator. The code includes `<iostream>`, uses the `std` namespace, and defines a `main` function. It prompts the user for two numbers and an operator, then uses a `switch` statement to perform addition or subtraction. The output window shows the program's execution with inputs 5, '-', and 6, resulting in -1. The GDB console at the bottom indicates the program finished successfully with exit code 0.

```
main.cpp
1  #include <iostream>
2
3  using namespace std;
4
5  int main() {
6      double num1, num2;
7      char operacion;
8
9      cout << "Calculadora en C++" << endl;
10     cout << "Ingrese el primer número: ";
11     cin >> num1;
12
13     cout << "Ingrese el operador (+, -, *, /): ";
14     cin >> operacion;
15
16     cout << "Ingrese el segundo número: ";
17     cin >> num2;
18
19     switch (operacion) {
20         case '+':
21             cout << "Resultado: " << num1 + num2 << endl;
22             break;
23         case '-':
24             cout << "Resultado: " << num1 - num2 << endl;
25             break;
26     }
27 }
```

input

```
Ingrese el primer número: 5
Ingrese el operador (+, -, *, /): -
Ingrese el segundo número: 6
Resultado: -1
```

GDB

```
...Program finished with exit code 0
Press ENTER to exit console.
```