

Group 11**Leader:**

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Algorithm:

1. start
2. enter first number and second number
3. choose operator (+, -, *, /)
4. case in case 1, if +, add the first number and second number in case 2, if - subtract the first number and second number in case 3, if * multiply the first number and second number in case 4, if / divide the first number and second number if second number is equal to zero, display division by zero is not allowed, display division by zero is not allowed, display invalid choice then proceed to step 6
5. display result (if valid)
6. end

Pseudocode:

The screenshot shows a mobile application titled "Coding C++" with a dark theme. At the top, there's a status bar with the time "6:30 PM", social media icons, and network/battery status. Below the title, there are buttons for "RUN" and "MENU", and a text indicator "Auto saved at 18:30:07". The main area contains a C++ code editor with a file named "LARIZA, JOHN GEMEINHARDT I." and a comment "//ACT#1". The code implements a calculator with four operations: addition, subtraction, multiplication, and division. It uses `std::cout` and `std::cin` for input/output, and a `switch` statement to handle the user's choice of operation. The division case includes a check for division by zero. At the bottom, there is a virtual keyboard with two rows of symbols and a home button.

```
1 //LARIZA, JOHN GEMEINHARDT I.
2 //ACT#1
3 //ADDITION, SUBTRACTION, MULTIPLICATION, DIVISION
4
5 #include <iostream>
6 using namespace std;
7
8 int main() {
9     int A, B, choice;
10    float result;
11
12    cout << "Enter two numbers: ";
13    cin >> A >> B;
14
15    cout << "\nChoose operation:\n";
16    cout << "1. Addition\n2. Subtraction\n3. Multiplication\n4. Division\n";
17    cout << "Enter choice (1-4): ";
18    cin >> choice;
19
20    switch (choice) {
21        case 1:
22            result = A + B;
23            cout << "Sum = " << result << endl;
24            break;
25        case 2:
26            result = A - B;
27            cout << "Difference = " << result << endl;
28            break;
29        case 3:
30            result = A * B;
31            cout << "Product = " << result << endl;
32            break;
33        case 4:
34            if (B == 0)
35                cout << "Error: Division by zero is not allowed." << endl;
36            else {
37                result = (float)A / B;
38                cout << "Quotient = " << result << endl;
39            }
40            break;
41        default:
42            cout << "Invalid choice!" << endl;
43    }
44
45    return 0;
46 }
47
48
```

Tab {} “” ; ↶ ↷ ↵ ↶ ↷ ↵

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Flowchart:

