

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:

6:30 PM 12.6 K/S 5G Vo LTE 4G 98

Coding C++ RUN MENU

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```
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
```

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Flowchart:

