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#include <iostream>

using namespace std;

int main()
{
    double num1, num2;
    char operation;

    cout<<"CALCULATOR"<<endl;
    cout<<"choose an operation"<<endl;

    cout<<"A.Addition"<<endl;
    cout<<"B.Subtraction"<<endl;
    cout<<"C.Multiplication"<<endl;
    cout<<"D.Division"<<endl;
    cout<<"Enter your choice ( A/B/C/D)"<<endl;
    cout<<"Your choice can be in lower case or upper case "<<endl;
    cin >>operation;

    cout<<"Enter first number: "<<endl;
    cin>>num1;cout<<endl;

    cout<<"Enter second number: "<<endl;
    cin>>num2;cout<<endl;

    switch (operation) {

        case 'A':
        case 'a':
            cout<<"Result: "<< num1 <<" + " << num2 <<" = " << num1 + num2 <<endl;
            break;

        case 'B':
        case 'b':
            cout<<"Result: "<< num1 <<" - " << num2 <<" = " << num1 - num2 <<endl;
            break;

        case 'C':
        case 'c':
            cout<<"Result: "<< num1 <<" * " << num2 <<" = " << num1 * num2 <<endl;
            break;

        case 'D':
        case 'd':
            if ( num2 != 0 ){
                cout<<"Result: " <<num1<<" / " << num2 <<" = " <<num1 / num2<<endl;}

    else{
        cout<<" "<<endl;}
    }
}

```

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break;
default:
    cout<<" ERROR: invalid operator! "<<endl;
}

return 0;
}
```