

PROGRAM-1

```
#include <iostream>
#include <math.h>
using namespace std;
class Calculator {
double A, B;
public:
void get() {
cout << "Enter First Number: ";
cin >> A;
cout << "Enter Second Number: ";
cin >> B;
}
double add() {
return A + B;
}
double sub() {
return A - B;
}
double mul() {
return A * B;
}
double div() {
if (B == 0) {
cout << "Divison By Zero" << endl;
return INFINITY;
}
else {
return A / B;
}
}
};
int main() {
int choice;
Calculator cal; // simple calculator object
cout << "Enter 1 Add 2 Numbers"
<< "\nEnter 2 Subtract 2 Numbers"
<< "\nEnter 3 Multiply 2 Numbers"
<< "\nEnter 4 Divide 2 Numbers"
<< "\nEnter 0 To Exit"
```

```
<< "\n";
do {
    cout << "\nEnter Choice: ";
    cin >> choice;
    switch (choice) {
    case 1:
        cal.get();
        cout << "Result: " << cal.add() << endl;
        break;
    case 2:
        cal.get();
        cout << "Result: " << cal.sub() << endl;
        break;
    case 3:
        cal.get();
        cout << "Result: " << cal.mul() << endl;
        break;
    case 4:
        cal.get();
        cout << "Result: " << cal.div() << endl;
        break;
    }
} while (choice >= 1 && choice <= 4);
return 0;
}
```

OUTPUT:

Enter 1 Add 2 Numbers
Enter 2 Subtract 2 Numbers
Enter 3 Multiply 2 Numbers
Enter 4 Divide 2 Numbers
Enter 0 To Exit

Enter Choice: 1
Enter First Number: 54
Enter Second Number: 45
Result: 99

Enter Choice: 2
Enter First Number: 100
Enter Second Number: 30
Result: 70

Enter Choice: 3
Enter First Number: 4
Enter Second Number: 5
Result: 20

Enter Choice: 4
Enter First Number: 100
Enter Second Number: 25
Result: 4