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\* Title: Simple calculator

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**#include**<iostream>

**#include**<cmath>

**using** **namespace** std;

//function for addition

**int** **add**(**int** num1,**int** num2)

{

**return** num1+num2;

}

//function for subtraction

**int** **subtract**(**int** num1,**int** num2)

{

**return** num1-num2;

}

//function for multiplication

**int** **multiply**(**float** num1,**float** num2)

{

**float** result=num1\*num2;

**return**(**round**(result));//result will be rounded by built in function

}

//function for division

**float** **division**(**float** num1,**float** num2)

{

**return**(num1/num2);

}

**int** **main**()

{

**int** choice,num1,num2,result;

**float** num3,num4;

**do**

{

//display menus to user

cout<<"\n1:Addition\n2:Subtraction\n3:Multiplication\n4:Division\n5:Exit";

cout<<"\nEnter choice:";//Enter choice of user

cin>>choice;

//switch user's choice

**switch**(choice)

{

**case** 1:

cout<<"\nEnter 2 numbers to be added:";

cin>>num1>>num2;

result=add(num1,num2);//calling addition function

cout<<"\nAddition="<<result;

**break**;

**case** 2:

cout<<"\nEnter 2 numbers to be subtract:";

cin>>num1>>num2;

result=subtract(num1,num2);//calling subtraction function

cout<<"\nSubtraction="<<result;

**break**;

**case** 3:

cout<<"\nEnter numbers to be multiply:";

cin>>num3>>num4;

result=multiply(num3,num4);//calling multiplication function

cout<<"\nMultiplication="<<result;

**break**;

**case** 4:

cout<<"\nEnter dividend and divisor:";

cin>>num3>>num4;

**float** quotient=division(num3,num4);//calling division function

**int** rem=**remainder**(num3,num4);//calculate remainder using built in function

cout<<"\nQuotient="<<quotient;

cout<<"\nRemainder="<<rem;

**break**;

}

}**while**(choice!=5);//if user's choice is 5,then exit the loop

**return** 0;

}

**Output:**

1:Addition

2:Subtraction

3:Multiplication

4:Division

5:Exit

Enter choice:1

Enter 2 numbers to be added:12

34

Addition=46

1:Addition

2:Subtraction

3:Multiplication

4:Division

5:Exit

Enter choice:2

Enter 2 numbers to be subtract:45

67

Subtraction=-22

1:Addition

2:Subtraction

3:Multiplication

4:Division

5:Exit

Enter choice:3

Enter numbers to be multiply:4.5

4.5

Multiplication=20

1:Addition

2:Subtraction

3:Multiplication

4:Division

5:Exit

Enter choice:4

Enter dividend and divisor:34

3

Quotient=11.3333

Remainder=1

1:Addition

2:Subtraction

3:Multiplication

4:Division

5:Exit

Enter choice: 5