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/*
 * Title: Simple calculator
 * Created on: Jul 26, 2020
 * Author: Megha Sonavane
 * Roll No:23355
 */
#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

```

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    cout<<"\n1:Addition\n2:Subtraction\n3:Multiplicatio
n\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

```

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        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:

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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