

Assignment-I-Functions

Simple calculator program for operations- Subtract, Multiply and Divide.

```
/*
 * Title:Calculator
 * Created on: Jul 24, 2020
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 * Roll No.:23355
 */
#include<iostream>
using namespace std;
//Function for addition
float addition(float num1,float num2)
{
    return (num1+num2);
}
//function for subtraction
float subtraction(float num1,float num2)
{
    return num1-num2;
}
//function for multiplication
float multiplication(float num1,float num2)
{
    return num1*num2;
}
float division(float num1,float num2)
{
    //if divisor is 0, then error message will be
display
    if(num2==0)
    {
        cout<<"Can not divide by zero";
        return 0;
    }
    else
        return num1/num2;
}
int main()
```

```

{
    int choice;
    float num1,num2,result;
    //Enter numbers for calculation
    cout<<"Enter two numbers:";
    cin>>num1>>num2;
    do
    {
        //Display menus to users

        cout<<"\n1:Addition\n2:Subtraction\n3:Multiplicatio
n\n4:Division\n5:Exit";
        cout<<"\nEnter choice:";
        cin>>choice;
        //switch the choice of user
        switch(choice)
        {
            case 1:
                result=addition(num1,num2);
                cout<<"\nAddition="<<result<<"\n";
                break;
            case 2:
                result=subtraction(num1,num2);
                cout<<"\nSubtraction="<<result<<"\n";
                break;
            case 3:
                result=multiplication(num1,num2);
                cout<<"Multiplication="<<result<<"\n";
                break;
            case 4:
                result=division(num1,num2);
                cout<<"Division="<<result<<"\n";
                break;
        }
    }while(choice!=5);
    //loop will iterate till choice is not 5
    return 0;
}

```

```
/*
```

Output:

```
Enter two numbers:40  
50
```

```
1:Addition  
2:Subtraction  
3:Multiplication  
4:Division  
5:Exit
```

```
Enter choice:
```

```
1
```

```
Addition=90
```

```
1:Addition  
2:Subtraction  
3:Multiplication  
4:Division  
5:Exit
```

```
Enter choice:2
```

```
Subtraction=-10
```

```
1:Addition  
2:Subtraction  
3:Multiplication  
4:Division  
5:Exit
```

```
Enter choice:3
```

```
Multiplication=2000
```

```
1:Addition  
2:Subtraction  
3:Multiplication  
4:Division  
5:Exit
```

```
Enter choice:4
```

```
Division=0.8
```

```
1:Addition  
2:Subtraction  
3:Multiplication  
4:Division  
5:Exit
```

```
Enter choice:5 */
```