**Assignment-I-Functions**

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

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\* Title:Calculator

\* Created on: Jul 24, 2020

\* Author: Megha Sonavane

\* Roll No.:23355

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**#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:Multiplication\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 \*/