SYCM-I Roll No:15

Date of Performance : 03/10/2022

Practical no: 10.1

Title : Program to perform mathematical operations

#include<iostream>

using namespace std;

class number

{

private:

int x,y;

public:

//Defalt Constructor

number(void)

{

x=50;

y=20;

}

//Paramaterized Constuctor

number(int n1,int n2)

{

x=n1;

y=n2;

}

//Deconstructor

~number()

{

cout<<"Object is destroyed....\n";

}

//member function

int sum(void)

{

int result;

result=x+y;

return result;

}

int difference(void)

{

int result;

result=x-y;

return result;

}

int product(void)

{

int result;

result=x\*y;

return result;

}

float division(void)

{

float result;

result=x/(float)y;

return result;

}

}; //End of class

//main function

int main()

{

int result,no1,no2;

float div;

{

number no; //create object with default constructor

result=no.sum();

cout<<"Sum= "<<result<<endl;

result=no.difference();

cout<<"Difference= "<<result<<endl;

result=no.product();

cout<<"Product= "<<result<<endl;

result=no.division();

cout<<"Division= "<<result<<endl;

}

cout<<"Enter two numbers: ";

cin>>no1>>no2;

number num(no1,no2); //call parameterized constructor

result=num.sum();

cout<<"Sum= "<<result<<endl;

result=num.difference();

cout<<"Difference= "<<result<<endl;

result=num.product();

cout<<"Product= "<<result<<endl;

div=num.division();

cout<<"Division= "<<div<<endl;

return 0;

}

**OUTPUT:**

Sum= 70

Difference= 30

Product= 1000

Division= 2

Object is destroyed....

Enter two numbers: 50 30

Sum= 80

Difference= 20

Product= 1500

Division= 1.66667

Object is destroyed....

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