// 23323\_Surabhi

// Calculator

#include<iostream>

#include<cmath>

using namespace std;

void add(); //Function declaration for addition

void sub(); //Function declaration for substraction

float multi(float,float); //Function declaration for multiplication

float div(double,double); //Function declaration for division

int remainder(int,int); ////Function declaration for remainder

int main()

{

int choice,a,b,r;

float s,f1,f2,result3;

double d1,d2;

while(1) //To run the loop till user's wish

{

cout<<"1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit"<<endl; //Choices

cout<<"Enter your choice:"; //To take choice from user

cin>>choice;

switch(choice) //To run given choices

{

case 1:

add(); //Function call for addition

break;

case 2:

sub(); //Function call for substraction

break;

case 3:

cout<<"Enter two numbers to be multiplied: ";

cin>>f1>>f2;

result3 = multi(f1,f2); //Function call for multiplication

r=round(result3); // Use of round function to give round of value

cout<<"Multiplication="<<result3<<endl;

cout<<"Round result="<<r<<endl;

break;

case 4:

cout<<"Enter to numbers to be divided: ";

cin>>d1>>d2;

s=div(d1,d2); //Function call for division

cout<<"Division="<<s<<endl;

break;

case 5:

cout<<"Enter two numbers to get remainder: ";

cin>>a>>b;

r=remainder(a,b); ////Function call for remainder

cout<<"Remainder="<<r<<endl;

break;

case 6:exit(0); //To direct exit from loop

default: //In the case if user entered choice another than give choices

cout<<"Invalid choice"<<endl;

}

}

return 0;

}

void add() //Function definition of add function

{

int int1,int2,result1;

cout<<"Enter two numbers to be added: ";

cin>>int1>>int2;

result1=int1+int2;

cout<<"Addition= "<<result1<<endl;

}

void sub() //Function definition of sub function

{

int num1,num2,result2;

cout<<"Enter twi numbers to be substracted: ";

cin>>num1>>num2;

result2=num1-num2;

cout<<"Substraction="<<result2<<endl;

}

float multi(float F1,float F2) //Function definition of multi function

{

return(F1\*F2);

}

float div(double D1,double D2) //Function definition of div function

{

return(D1/D2);

}

int remainder(int A,int B) ////Function definition of remainder function

{

return(A%B);

}

/\*Output

1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit

Enter your choice:4

Enter to numbers to be divided: 56.8 1.6

Division=35.5

1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit

Enter your choice:3

Enter two numbers to be multiplied: 67.8 3.3

Multiplication=223.74

Round result=224

1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit

Enter your choice:2

Enter twi numbers to be substracted: 45 67

Substraction=-22

1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit

Enter your choice:1

Enter two numbers to be added: 45 67

Addition= 112

1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit

Enter your choice:5

Enter two numbers to get remainder: 45 7

Remainder=3

1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit

Enter your choice:8

Invalid choice

1.Addition 2.Substraction 3.Multiplication 4.Division 5.Remainder 6.Exit

Enter your choice:6

Process finished.

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