Calculator program which includes the use of loop, if else statements and user-defined functions.

```cpp
≡  File  Edit  Search  Run  Compile  Debug  Project  Options    Window  Help
                            ARYA_CAL.CPP
#include_<iostream.h>
#include <conio.h>

void input();
void sum();
void sub();
void div();
void mul();

void main(){
clrscr();
char y_n;
int choice;

do{
    clrscr();
    cout<<"\nWhat do you want to calculate?\n";

    cout<<"\nPress 1 for Summation";
    cout<<"\nPress 2 for Subtraction";
    cout<<"\nPress 3 for Division";
    1:9
F1 Help  Alt-F8 Next Msg  Alt-F7 Prev Msg  Alt-F9 Compile  F9 Make  F10 Menu
```

```cpp
≡  File  Edit  Search  Run  Compile  Debug  Project  Options    Window  Help
                            ARYA_CAL.CPP
    cout<<"\nPress 3 for Division";
    cout<<"\nPress 4 for Multiplication\n";

    cout<<"\nEnter your choice: ";
    cin>>choice;

    if (choice==1)
        sum();
    else if (choice==2)
        sub();
    else if (choice==3)
        div();
    else if (choice==4)
        mul();
    else
        cout<<"\nPlease make a valid choice";

    cout<<"\n\nDo you want to calculate again? Y/N : ";
    cin>>y_n;
}while (y_n=='Y');
    41:9
F1 Help  Alt-F8 Next Msg  Alt-F7 Prev Msg  Alt-F9 Compile  F9 Make  F10 Menu
```

```
getch();
}
void input(){
    cout<<"\nEnter a number: ";
}
void sum(){
    float a, b;
    input();
    cin>>a;
    input();
    cin>>b;
    cout<<"\nSum of the numbers is: "<<a+b;


}

void sub(){
    float a, b;
    input();
    cin>>a;
    input();
    cin>>b;
```

```
    cout<<"\nSubtraction of the numbers is: "<<a-b;

}
void div(){
    float a, b;
    input();
    cin>>a;
    input();
    cin>>b;

    cout<<"\nQuotient of the numbers is: "<<a/b;

}
void mul(){
    float a, b;
    input();
    cin>>a;
    input();
    cin>>b;

    cout<<"\nProduct of the numbers is: "<<a*b;

}
```

```
What do you want to calculate?

Press 1 for Summation
Press 2 for Subtraction
Press 3 for Division
Press 4 for Multiplication

Enter your choice: 1

Enter a number: 2

Enter a number: 3

Sum of the numbers is: 5

Do you want to calculate again? Y/N : _
```

```
What do you want to calculate?

Press 1 for Summation
Press 2 for Subtraction
Press 3 for Division
Press 4 for Multiplication

Enter your choice: 2

Enter a number: 2

Enter a number: 3

Subtraction of the numbers is: -1

Do you want to calculate again? Y/N :
```

```
What do you want to calculate?

Press 1 for Summation
Press 2 for Subtraction
Press 3 for Division
Press 4 for Multiplication

Enter your choice: 3

Enter a number: 2

Enter a number: 3

Quotient of the numbers is: 0.666667

Do you want to calculate again? Y/N : _
```

```
What do you want to calculate?

Press 1 for Summation
Press 2 for Subtraction
Press 3 for Division
Press 4 for Multiplication

Enter your choice: 4

Enter a number: 2

Enter a number: 3

Product of the numbers is: 6

Do you want to calculate again? Y/N :
```

#phi