

```

1 import java.util.Scanner;
2 import java.util.InputMismatchException;
3 class Calculator
4 {
5
6     public void add(float a,float b, float c)
7     {
8         System.out.println(a+"+"+b+"+"+c+"="+(a+b+c));
9     }
10    public void add(float a,float b)
11    {
12        System.out.println(a+"+"+b+"="+(a+b));
13    }
14
15
16    public void subtract(float a,float b, float c)
17    {
18        System.out.println(a+"-"+b+"-"+c+"="+(a-b-c));
19    }
20    public void subtract(float a,float b)
21    {
22        System.out.println(a+"-"+b+"="+(a-b));
23    }
24
25
26    public void product(float a,float b)
27    {
28        System.out.println(a+"*"+b+"="+(a*b));
29    }
30
31
32    public void division(float a,float b)
33    {
34        System.out.println(a+"/"+b+"="+(a/b));
35    }
36 }
37 public class Main
38 {
39     public static void main (String[] args) {
40         Calculator cal=new Calculator();
41         Scanner sc=new Scanner(System.in);
42         try
43         {
44             System.out.println("1. ADDITION n2. SUBTRACTION");
45             int op=sc.nextInt();
46             switch(op)
47             {
48                 case 0:
49                     System.out.println("Exit...");
50                     System.exit(0);
51                     break;
52                 case 1:
53                     System.out.print("Enter operand 1: ");
54                     float add1=sc.nextFloat();
55                     System.out.print("Enter operand 2: ");
56                     float add2=sc.nextFloat();
57                     System.out.print("Enter operand 3 if you want. else enter 0");
58                     float add3=sc.nextFloat();
59                     if(add3==0)
60                     {
61                         cal.add(add1, add2);
62                     }
63                     else
64                     {
65                         cal.add(add1, add2, add3);
66                     }
67                     break;
68                 case 2:
69                     System.out.print("Enter operand 1: ");
70                     float sub1=sc.nextFloat();
71                     System.out.print("Enter operand 2: ");
72                     float sub2=sc.nextFloat();
73                     System.out.print("Enter operand 3 if you want. else enter 0");
74                     float sub3=sc.nextFloat();
75                     if(sub3==0)
76                     {
77                         cal.subtract(sub1, sub2);
78                     }
79                     else
80                     {
81                         cal.subtract(sub1, sub2, sub3);
82                     }
83                     break;
84                 case 3:
85                     System.out.print("Enter operand 1: ");
86                     float mul1=sc.nextFloat();
87                     System.out.print("Enter operand 2: ");
88                     float mul2=sc.nextFloat();
89                     cal.product(mul1,mul2);
90                     break;
91                 case 4:
92                     System.out.print("Enter operand 1: ");
93                     float div1=sc.nextFloat();
94                     System.out.print("Enter operand 2: ");
95                     float div2=sc.nextFloat();
96                     if(div2==0)
97                     {
98                         throw new ArithmeticException("Number cannot be divided by zero");
99                     }
100                    cal.division(div1,div2);
101                    break;
102                default:
103                    System.out.println("Invalid choice: ");
104            }
105        }
106        catch(InputMismatchException ime)
107        {
108            System.out.println("You have entered input of wrong datatype");
109        }
110        catch(ArithmeticException ae)
111        {
112            System.out.println(ae.getMessage());
113        }
114        System.out.println("Vamsi.k 31834764,Java-2");
115    }
116 }

```

1.

1. ADDITION
2. SUBTRACTION
3. MULTIPLICATION
4. DIVISION
5. EXIT

Enter your choice:

1

Enter operand 1: 1728

Enter operand 2: 8283

Enter operand 3(if you want. else enter 0): 0

1728.0+8283.0=10011.0

Vamsi.k 51834764 Java-2

Process finished.

|



5.

```
// title :  
// Description :  
// tags :  
  
1 public class Sort {  
2     public static void main(String []args) {  
3         String str[] = {"h", "g", "f", "e", "d"};  
4         String temp;  
5         System.out.println("Sorted string...");  
6         for (int j = 0; j < str.length; j++) {  
7             for (int i = j + 1; i < str.length; i++) {  
8                 // comparing strings  
9                 if (str[i].compareTo(str[j]) < 0) {  
10                    temp = str[j];  
11                    str[j] = str[i];  
12                    str[i] = temp;  
13                }  
14            }  
15            System.out.println(str[j]);  
16        }  
17        System.out.println("Vamsi.k 51834764 java-2");  
18    }  
19 }
```

Sorted string...

d
e
f
g
h

Vamsi.k 51834764 java-2

Process finished.

5.A.