



Question 1.java

Saved



```
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    public void subtract(float a, float b, float c)
15    {
16        System.out.println(a+" "+b+" "+c+"-="+ (a-b-c));
```

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```
15 {
16     System.out.println(a+"-"+b+"-"+c+"="+a-b-c));
17 }
18 public void subtract(float a,float b)
19 {
20     System.out.println(a+"-"+b+"="+a-b));
21 }
22
23
24 public void product(float a,float b)
25 {
26     System.out.println(a+"*"+b+"="+a*b));
27 }
28
29
30 public void division(float a,float b)
31 {
32     System.out.println(a+"/"+b+"="+a/b));
33 }
```



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/" + b + " = " + (a / b));



```

31     {
32         System.out.println(a+"/"+b+"="+a/b));
33     }
34 }
35 public class Main
36 {
37     public static void main (String[] args) {
38         Calculator cal=new Calculator();
39         Scanner sc=new Scanner(System.in);
40         System.out.println("Author: Ch.Pavan Manoj Kumar\nSAP ID:51834541");
41         try
42         {
43             System.out.println("1. ADD\n2. SUBTRACT\n3. MULTIPLICATION\n4. DIVISION\n5. EXIT\nEnter your choice:");
44             int op=sc.nextInt();
45             switch(op)
46             {
47                 case 1:
48                     cal.add(a,b);
49                     break;
50                 case 2:
51                     cal.subtract(a,b);
52                     break;
53                 case 3:
54                     cal.multiply(a,b);
55                     break;
56                 case 4:
57                     cal.divide(a,b);
58                     break;
59                 case 5:
60                     System.out.println("Exit...");
61                     break;
62                 default:
63                     System.out.println("Invalid choice");
64             }
65         }
66         catch (Exception e)
67         {
68             System.out.println("Exception occurred: "+e.getMessage());
69         }
70     }
71 }

```

```

45     switch(op)
46     {
47         case 0:
48             System.out.println("Exit...");
49             System.exit(0);
50             break;
51         case 1:
52             System.out.print("Enter operand 1: ");
53             float add1=sc.nextFloat();
54             System.out.print("Enter operand 2: ");
55             float add2=sc.nextFloat();
56             System.out.print("Enter operand 3(if you want. else enter 0): ");
57             float add3=sc.nextFloat();
58             if(add3==0)
59             {
60                 cal.add(add1, add2);
61             }
62             float add4=add1+add2+add3;
63             System.out.print("Sum of three numbers is: ");
64             System.out.println(add4);
65     }

```



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```

60         cal.add(add1, add2,
61     }
62     else
63     {
64         cal.add(add1, add2, add3);
65     }
66     break;
67 case 2:
68     System.out.print("Enter operand 1: ");
69     float sub1=sc.nextFloat();
70     System.out.print("Enter operand 2: ");
71     float sub2=sc.nextFloat();
72     System.out.print("Enter operand 3(if you want. else enter 0): ");
73     float sub3=sc.nextFloat();
74     if(sub3==0)
75     {
76         cal.subtract(sub1, sub2);

```



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```

75         cal.subtract(sub1, sub2);
76     }
77     else
78     {
79         cal.subtract(sub1, sub2, sub3);
80     }
81     break;
82 case 3:
83     System.out.print("Enter operand 1: ");
84     float mul1=sc.nextFloat();
85     System.out.print("Enter operand 2: ");
86     float mul2=sc.nextFloat();
87     cal.product(mul1,mul2);
88     break;
89 case 4:
90     System.out.print("Enter operand 1: ");
91     =sc.nextFloat();
92     .print("Enter operand 2: ");
93     =sc.nextFloat();

```



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```

91         System.out.print("Enter operand 1: ");
92         float div1=sc.nextFloat();
93         System.out.print("Enter operand 2: ");
94         float div2=sc.nextFloat();
95         if(div2==0)
96         {
97             throw new ArithmeticException("Number cannot be divided by zero!!");
98         }
99         cal.division(div1,div2);
100         break;
101     default:
102         System.out.println("Invalid choice: ");
103     }
104 }
105 catch(InputMismatchException ime)
106 {
107     ("You have entered input of wrong datatype!!");
108 }

```



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```
100         break;
101     default:
102         System.out.println("Invalid choice: ");
103     }
104 }
105 catch(InputMismatchException ime)
106 {
107     System.out.println("You have entered input of wrong datatype!!");
108 }
109 catch(ArithmeticException ae)
110 {
111     System.out.println(ae.getMessage());
112 }
113 }
114 }
```



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1. ADD
2. SUBTRACT
3. MULTIPLICATION
4. DIVISION
5. EXIT

Enter your choice:

4

Enter operand 1: 10

Enter operand 2: 0

Number cannot be divided by zero!!

Process finished.




Question 5.java







```
1 public class Demo {
2     public static void main(String []args) {
3         String str[] = { "P", "A", "V", "A", "N",,};
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    }
18 }
```




17:27  14

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11    {  
12        System.out.println(a+" "+b+"="+ (a+b));  
13    }  
14    public void subtract(float a,float b, float c)  
15    {  
16        System.out.println(a+" "+b+" "+c+"-="+ (a-b-c));  
17    }  
18 }
```

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× Terminal



Sorted string...

A
A
N
P
V

Process finished.