



Java\_assignment1.java

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```
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)
```

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```
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         System.out.println("Author: K. Sudarshan Reddy \nSAP ID:51834730");
43         try
44         {
45             System.out.println("1. ADD\n2. SUBTRACT\n3. MULTIPLICATION\n4. DIVISION\n5. EXIT\nEnter your choice: ");
46             int op=sc.nextInt();
```

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```
46 int op=sc.nextInt();
47 switch(op)
48 {
49     case 0:
50         System.out.println("Exit...");
51         System.exit(0);
52         break;
53     case 1:
54         System.out.print("Enter operand 1: ");
55         float add1=sc.nextFloat();
56         System.out.print("Enter operand 2: ");
57         float add2=sc.nextFloat();
58         System.out.print("Enter operand 3(if you want. else enter 0): ");
59         float add3=sc.nextFloat();
60         if(add3==0)
61         {
```

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

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```
75     float sub3=sc.nextFloat();
76     if(sub3==0)
77     {
78         cal.subtract(sub1, sub2);
79     }
80     else
81     {
82         cal.subtract(sub1, sub2, sub3);
83     }
84     break;
85 case 3:
86     System.out.print("Enter operand 1: ");
87     float mul1=sc.nextFloat();
88     System.out.print("Enter operand 2: ");
89     float mul2=sc.nextFloat();
90     cal.product(mul1,mul2);
```

File info





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```
85 case 3:
86     System.out.print("Enter operand 1: ");
87     float mul1=sc.nextFloat();
88     System.out.print("Enter operand 2: ");
89     float mul2=sc.nextFloat();
90     cal.product(mul1,mul2);
91     break;
92 case 4:
93     System.out.print("Enter operand 1: ");
94     float div1=sc.nextFloat();
95     System.out.print("Enter operand 2: ");
96     float div2=sc.nextFloat();
97     if(div2==0)
98     {
99         throw new ArithmeticException("Number cannot be divided by zero!!");
100     }
```

File info



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```
100     }
101     cal.division(div1,div2);
102     break;
103     default:
104         System.out.println("Invalid choice: ");
105     }
106 }
107 catch(InputMismatchException ime)
108 {
109     System.out.println("You have entered input of wrong datatype!!");
110 }
111 catch(ArithmeticException ae)
112 {
113     System.out.println(ae.getMessage());
114 }
115 }
```

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```
102         break;
103     default:
104         System.out.println("Invalid choice: ");
105     }
106 }
107 catch(InputMismatchException ime)
108 {
109     System.out.println("You have entered input of wrong datatype!!");
110 }
111 catch(ArithmeticException ae)
112 {
113     System.out.println(ae.getMessage());
114 }
115 }
116 }
```

File info







```
1 public class Student {
2     public static void main(String []args) {
3         String str[] = { "s", "k", "r", "v", "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 }
```



Terminal



Sorted string...

k

n

r

s

v

Process finished.