```java
import java.util.Scanner;
import java.util.InputMismatchException;
class Calculator
{

    public void add(float a,float b, float c)
    {
        System.out.println(a+"+"+b+"+"+c+"="+(a+b+c));
    }
    public void add(float a,float b)
    {
        System.out.println(a+"+"+b+"="+(a+b));
    }


    public void subtract(float a,float b, float c)

m.out.println(a+"-"+b+"-"+c+"="+(a-b-c));
```

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```
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      {
            m.out.println(a+"/"+b+"="+(a/b));
```

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```
    {
        System.out.println(a+"/"+b+"="+(a/b));
    }
}
public class Main
{
    public static void main (String[] args) {
        Calculator cal=new Calculator();
        Scanner sc=new Scanner(System.in);
        System.out.println("Author: v. pavan kumar\nSAP ID:51834509");
        try
        {
            System.out.println("1. ADD\n2. SUBTRACt\n3. MULTIPLICATION\n4. DIVISION\n5. EXIT\nEnter
            int op=sc.nextInt();
            switch(op)
            {
                case 0:
                    System.out.println("Exit...");
                    System.exit(0);
```

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```
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                  {
62                      cal.add(add1, add2);
63                  }
64                  else
65                  {
66                      cal.add(add1, add2, add3);
                    }
                    break;
                case 2:
```

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```
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();
76                  if(sub3==0)
77                  {
78                      cal.subtract(sub1, sub2);
79                  }
80                  else
81                  {
82                      cal.subtract(sub1, sub2, sub3);
83                  }
                    break;
                case 3:
                    System.out.print("Enter operand 1: ");
```

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```
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             }
101             cal.division(div1,div2);
                break;
            default:
                System.out.println("Invalid choice.");
```

```
                    break;
                default:
                    System.out.println("Invalid choice: ");
            }
        }
        catch(InputMismatchException ime)
        {
            System.out.println("You have entered input of wrong datatype!!");
        }
        catch(ArithmeticException ae)
        {
            System.out.println(ae.getMessage());
        }
    }
}
```

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```
Author: v. pavan kumar
SAP ID:51834509
1. ADD
2. SUBTRACt
3. MULTIPLICATION
4. DIVISION
5. EXIT
Enter your choice:
1
Enter operand 1: 10
Enter operand 2: 10
Enter operand 3(if you want. else enter 0): 0
10.0+10.0=20.0

Process finished.
```

```java
public class Demo {
   public static void main(String []args) {
      String str[] = { "s", "k", "r", "v", "n"};
      String temp;
      System.out.println("Sorted string...");
      for (int j = 0; j < str.length; j++) {
         for (int i = j + 1; i < str.length; i++) {
            // comparing strings
            if (str[i].compareTo(str[j]) < 0) {
               temp = str[j];
               str[j] = str[i];
               str[i] = temp;
            }
         }
         System.out.println(str[j]);
      }
```

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