

```

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         System.out.println("Name:Vyshnavisrija");
43         System.out.println ("sapid:51834503");
44         try
45         {
46             System.out.println("1. ADD\n2. SUBTRACT\n3. PRODUCT\n4. DIVISION\n5. EXIT");
47             int op=sc.nextInt();

```

```

47         sc.nextFloat();
48     switch(op)
49     {
50         case 0:
51             System.out.println("Exit...");
52             System.exit(0);
53             break;
54         case 1:
55             System.out.print("Enter operand 1:");
56             float add1=sc.nextFloat();
57             System.out.print("Enter operand 2:");
58             float add2=sc.nextFloat();
59             System.out.print("Enter operand 3:");
60             float add3=sc.nextFloat();
61             if(add3==0)
62             {
63                 cal.add(add1, add2);
64             }
65             else
66             {
67                 cal.add(add1, add2, add3);
68             }
69             break;
70         case 2:
71             System.out.print("Enter operand 1:");
72             float sub1=sc.nextFloat();
73             System.out.print("Enter operand 2:");
74             float sub2=sc.nextFloat();
75             System.out.print("Enter operand 3:");
76             float sub3=sc.nextFloat();
77             if(sub3==0)
78             {
79                 cal.subtract(sub1, sub2);
80             }
81             else
82             {
83                 cal.subtract(sub1, sub2, sub3);
84             }
85             break;
86         case 3:
87             System.out.print("Enter operand 1:");
88             float mul1=sc.nextFloat();
89             System.out.print("Enter operand 2:");
90             float mul2=sc.nextFloat();
91             cal.product(mul1,mul2);
92             break;
93         case 4:
94             System.out.print("Enter operand 1:");

```



```

93         case 4:
94             System.out.print("Enter operand 1:");
95             float div1=sc.nextFloat();
96             System.out.print("Enter operand 2:");
97             float div2=sc.nextFloat();
98             if(div2==0)
99             {
100                 throw new ArithmeticException(
101                     "Division by zero is not allowed");
102             }
103             cal.division(div1,div2);
104             break;
105         default:
106             System.out.println("Invalid choice");
107     }
108     catch(InputMismatchException ime)
109     {
110         System.out.println("You have entered input");
111     }
112     catch(ArithmeticException ae)
113     {
114         System.out.println(ae.getMessage());
115     }
116

```

```
Name:Vyshnavisrija
sapid:51834503
1. ADD
2. SUBTRACT
3. MULTIPLICATION
4. DIVISION
5. EXIT
Enter your choice:
3
Enter operand 1: 12
Enter operand 2: 2
12.0*2.0=24.0

Process finished.
```

```

1 public class Main
2 {
3     public static boolean isPalindrome(String string,
4     {
5         if (low >= high) {
6             return true;
7         }
8
9         if (string.charAt(low) != string.charAt(high))
10             return false;
11     }
12
13     return isPalindrome(string, low + 1, high - 1);
14 }
15
16 public static void main(String[] args)
17 {
18     String string = "madam";
19
20     if (isPalindrome(string, 0, string.length() - 1)
21         System.out.println("Name:Vyshnavisrija");
22         System.out.println ("sap id:51834503");
23         System.out.print("given String is Palindrome'
24     } else {
25         System.out.print("given String is Not Palindr
26     }
27 }
28 }

```

```
Name:Vyshnavisrija  
sap id:51834503  
given String is Palindrome  
Process finished.  
|
```

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Name:Vyshnavisrija");
7         System.out.println ("Sap id:51834503");
8         int count=0;
9         int rem=0 ;
10        Scanner sc=new Scanner(System.in);
11        System.out.println("enter a number :");
12        int n= sc.nextInt();
13        while(n>0)
14        {
15            rem=n%10;
16            if(rem%2!=0)
17            {
18                count++;
19            }
20            n=n/10;
21
22        }
23        System.out.println("no of odd digits in number
24
25    }
26 }
```



```
Name:Vyshnavisrija
Sap id:51834503
enter a number :
47
no of odd digits in number are ; 1

Process finished.
```



```
1  import java.util.Arrays;
2
3  class Main
4  {
5      public static void swap(int[] arr, int a, int b)
6      {
7          int temp = arr[a];
8          arr[a] = arr[b];
9          arr[b] = temp;
10     }
11
12     public static void bubbleSort(int[] arr, int m)
13     {
14         for (int a = 0; a < m - 1; a++) {
15             if (arr[a] > arr[a + 1]) {
16                 swap(arr, a, a + 1);
17             }
18         }
19         if (m - 1 > 1) {
20             bubbleSort(arr, m - 1);
21         }
22     }
23
24     public static void main(String[] args)
25     {
26         int[] arr = {10,3,9,50,4,25 };
27
28         bubbleSort(arr, arr.length);
29
30         System.out.println("Name:Vyshnavisrija");
31         System.out.println ("Sap id:51834503");
32         System.out.println(Arrays.toString(arr));
33     }
34 }
```

```
Name:Vyshnavisrija  
Sap id:51834503  
[3, 4, 9, 10, 25, 50]  
  
Process finished.
```