

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
15    public void subtract(float a, float b, float c)
16    {
17
```

```
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
```

```

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: P.Kathyayani \nSAP ID:51834723");
43         try
44         {
45             System.out.println("1. ADD\n2. SUBTRACT\n3. MULTIPLICATION\n4. DIVISION\n5. EXIT\n");
46             int op=sc.nextInt();
47             switch(op)
48             {

```

```
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         {
62             cal.add(add1, add2);
63         }
64     }
65 }
```

```

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();
76         if(sub3==0)
77         {
78             cal.subtract(sub1, sub2);
79         }

```

```
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);
91         break;
92     case 4:
93         System.out.print("Enter operand 1: ");
94         float div1=sc.nextFloat();
95         System.out.print("Enter operand 2: ");
```

```

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);
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!!");

```

```
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 }
```



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

Enter your choice:

1

Enter operand 1: 23

Enter operand 2: 34

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

23.0+34.0=57.0

Process finished.


```
1 public class Main
2 {
3     public static boolean isPalindrome(String string, int low, int high)
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     {
```

```
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("Author:P.Kathyayani \nSAP ID:51834723");
22             System.out.print("given String is Palindrome");
23         } else {
24             System.out.print("given String is Not Palindrome");
25         }
26     }
27 }
```

```
Author:P.Kathyayani  
SAP ID:51834723  
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("Author :P.Kathyayani \n SAP ID:51834723");
7         int count=0;
8         int rem=0 ;
9         Scanner sc=new Scanner(System.in);
10        System.out.println("enter a number :");
11        int n= sc.nextInt();
12        while(n>0)
13        {
14            rem=n%10;
15            if(rem%2!=0)
16            {
```

```
12 while(n>0)
13 {
14     rem=n%10;
15     if(rem%2!=0)
16     {
17         count++;
18     }
19     n=n/10;
20
21 }
22 System.out.println("no of odd digits in number are ; "+count);
23
24 }
25 }
```



✕ Terminal



Author :P.Kathyayani

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enter a number :

2345

no of odd digits in number are ; 2

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    }
20 }
```



```

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 = { 5, 1, 7, 9, 8, 0, 2 };
27
28     bubbleSort(arr, arr.length);
29
30     System.out.println("Author:P.Kathyayani\n SAP ID:51834723");
31     System.out.println(Arrays.toString(arr));
32 }
33 }

```

```
Author:P.Kathyayani  
SAP ID:51834723  
[0, 1, 2, 5, 7, 8, 9]
```

```
Process finished.  
|
```

Attempts allowed: 1

This quiz opened at Wednesday, 22 July  
2020, 3:00 PM

This quiz will close at Wednesday, 22 July  
2020, 4:00 PM

Time limit: 30 mins

## SUMMARY OF YOUR PREVIOUS ATTEMPTS



State	Marks /	Grade /	Review
	20.00	10.00	
Finished	6.50	3.25	
Submitted			
Wednesday, 22 July 2020, 3:59 PM			

YOUR FINAL GRADE  
FOR THIS QUIZ IS  
3.25/10.00.