

← Code Playground



```
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+"="+
9 (a+b+c));
10    }
11    public void add(float a,float b)
12    {
13        System.out.println(a+" "+b+"="+ (a+b));
14    }
15
16    public void subtract(float a,float b, float
17 c)
18    {
19        System.out.println(a+" "-b+" "-c+"="+
20 (a-b-c));
21    }
22    public void subtract(float a,float b)
23    {
24        System.out.println(a+" "-b+"="+ (a-b));
25    }
26
27    public void product(float a,float b)
28    {
29        System.out.println(a+"*"+b+"="+ (a*b));
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("Author: B. Sowmya
43 lahari \nSAP ID:51834670");
44     }
45 }
```

TAB { } ; " = RUN ►



← Code Playground



```
41 Scanner sc=new Scanner(System.in);
42 System.out.println("Author: B. Sowmya
lahari \nSAP ID:51834670");
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();
47     switch(op)
48     {
49         case 0:
50
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(if you want. else enter 0): ");
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(if you want. else enter 0): ");
76             float sub3=sc.nextFloat();
77             if(sub3==0)
```

TAB

{

}

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RUN



← Code Playground



```
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      }
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: ");
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!!");
110  }
```

TAB

{ }

;

"

=

RUN ►



← Code Playground



```
79         }
80     |         else
81         {
82             cal.subtract(sub1, sub2,
83 sub3);
84         }
85         break;
86     case 3:
87         System.out.print("Enter
88 operand 1: ");
89         float mul1=sc.nextFloat();
90         System.out.print("Enter
91 operand 2: ");
92         float mul2=sc.nextFloat();
93         cal.product(mul1,mul2);
94         break;
95     case 4:
96         System.out.print("Enter
97 operand 1: ");
98         float div1=sc.nextFloat();
99         System.out.print("Enter
100 operand 2: ");
101         float div2=sc.nextFloat();
102         if(div2==0)
103         {
104             throw new
105 ArithmeticException("Number cannot be divided by
106 zero!!");
107         }
108         cal.division(div1,div2);
109         break;
110     default:
111         System.out.println("Invalid
112 choice: ");
113     }
114 }
115 catch(InputMismatchException ime)
116 {
117     System.out.println("You have entered
118 input of wrong datatype!!");
119 }
120 catch(ArithmeticException ae)
121 {
122     System.out.println(ae.getMessage());
123 }
124 }
```

TAB

{

}

;

"

=

RUN



← Code Playground



OUTPUT

Author: B. Sowmya lahari

SAP ID:51834670

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

Enter your choice:

Enter operand 1:

```
Exception in thread "main"
java.util.NoSuchElementException
    at java.base/
java.util.Scanner.throwFor(Scanner.java:937)
    at java.base/
java.util.Scanner.next(Scanner.java:1594)
    at java.base/
java.util.Scanner.nextFloat(Scanner.java:
2496)
    at Main.main(Main.java:61)
```



← Code Playground



```
1 public class Main
2 {
3     public static boolean isPalindrome(String string,
4     int low, int high)
5     {
6         if (low >= high) {
7             return true;
8         }
9         if (string.charAt(low) != string.charAt(high))
10        {
11            return false;
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() -
21        1)) {
22            System.out.println("Author:B.Sowmya lahari
23            \nSAP ID:51834670");
24            System.out.print("given String is
25            Palindrome");
26        } else {
27            System.out.print("given String is Not
28            Palindrome");
29        }
30    }
31 }
```

OUTPUT

```
Author:B.Sowmya lahari
SAP ID:51834670
given String is Palindrome
```



← Code Playground



```
1 import java.util.*;
2 public class Main
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Author :B. Sowmya lahari
7         \n SAP ID:51834670");
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        System.out.println("no of odd digits in number
23        are ; "+count);
24    }
25 }
```

OUTPUT

```
Author :B. Sowmya lahari
SAP ID:51834670
enter a number :
no of odd digits in number are ; 1
```



← Code Playground



```
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 = { 5, 1, 7, 9, 8, 0, 2 };
27
28        bubbleSort(arr, arr.length);
29
30        System.out.println("Author:B. Sowmya lahari \n
31        SAP ID:51834670");
32        System.out.println(Arrays.toString(arr));
33    }
```

OUTPUT

```
Author:B. Sowmya lahari
SAP ID:51834670
[0, 1, 2, 5, 7, 8, 9]
```

