

```

18:38
jul22.java
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"+"="+(
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, fl
17    {
18        System.out.println(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     {
41         Calculator cal=new Calculator();
42         Scanner sc=new Scanner(System.in);
43         System.out.println("Author:M.Sai Red
44         try
45         {
46             System.out.println("1. ADD\n2. S
47             int op=sc.nextInt();
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
56                     float add1=sc.nextFloat(
57                     System.out.print("Enter
58                     float add2=sc.nextFloat(
59                     System.out.print("Enter
60                     float add3=sc.nextFloat(
61                     if(add3==0)
62                     {
63                         cal.add(add1, add2);
64                     }
65                     else
66                     {
67                         cal.add(add1, add2,
68                     }
69                     break;
70                 case 2:
71                     System.out.print("Enter d
72                     float sub1=sc.nextFloat(
73                     System.out.print("Enter
74                     float sub2=sc.nextFloat(
75                     System.out.print("Enter
76                     float sub3=sc.nextFloat(
77                     if(sub3==0)
78                     {
79                         cal.subtract(sub1, s
80                     }
81                     else
82                     {
83                         cal.subtract(sub1, s
84                     }
85                     break;
86                 case 3:
87                     System.out.print("Enter
88                     float mul1=sc.nextFloat(
89                     System.out.print("Enter
90                     float mul2=sc.nextFloat(
91                     cal.product(mul1,mul2);
92                     break;
93                 case 4:
94                     System.out.print("Enter
95                     float div1=sc.nextFloat(
96                     System.out.print("Enter
97                     float div2=sc.nextFloat(
98                     if(div2==0)
99                     {
100                        throw new Arithmetic
101                    }
102                    cal.division(div1,div2);
103                    break;
104                default:
105                    System.out.println("Inva
106            }
107        }
108        catch(InputMismatchException ime)
109        {
110            System.out.println("You have ent
111        }
112        catch(ArithmeticException ae)
113        {
114            System.out.println(ae.getMessage
115        }
116    }

```

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1. ADD

2. SUBTRACT

3. MULTIPLICATION

4. DIVISION

5. EXIT

Enter your choice:

3

Enter operand 1: 23

Enter operand 2: 54

$23.0 \times 54.0 = 1242.0$

Process finished.



jul3.java

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```
1 public class Main
2 {
3     public static boolean isPalindrome(String
4     {
5         if (low >= high) {
6             return true;
7         }
8
9         if (string.charAt(low) != string.charAt
10            return false;
11        }
12
13        return isPalindrome(string, low + 1, hi
14    }
15
16    public static void main(String[] args)
17    {
18        String string = "madam";
19
20        if (isPalindrome(string, 0, string.length
21            System.out.println("Author:M.Sai Re
22            System.out.print("given String is P
23        } else {
24            System.out.print("given String is N
25        }
26    }
27 }
```



```
Author:M.Sai Reddy  
SAP ID:51834507  
given String is Palindrome  
Process finished.  
|
```



ascii.java

Saved



```
1
2 import java.util.*;
3 public class Main
4
5     public static void main (String[] args)
6     {
7         System.out.println("Author : M.Sai Reddy \n");
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 num");
23    }
24
25 }
26
```



Author : M.Sai Reddy

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enter a number :

76

no of odd digits in number are ; 1

Process finished.



Spy.java



Saved

```
1  import java.util.Arrays;
2
3  class Main
4  {
5      public static void swap(int[] arr, int a,
6      {
7          int temp = arr[a];
8          arr[a] = arr[b];
9          arr[b] = temp;
10     }
11
12     public static void bubbleSort(int[] arr, i
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:M.Sai Reddy\
31         System.out.println(Arrays.toString(arr)
32
33     }
```



```
Author:M.Sai Reddy  
SAP ID:51834507  
[0, 1, 2, 5, 7, 8, 9]
```

```
Process finished.  
|
```