

```

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("K.Durga sri sr

```



```

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("K.Durga sri sravya");
43         try
44         {
45             System.out.println("1. ADD\n2. SUBTRACT\n3. MULTIPLY\n4. DIVIDE\n5. EXIT");
46             int op=sc.nextInt();
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 operator: ");
55                     float add1=sc.nextFloat();
56                     System.out.print("Enter operand 1: ");
57                     float add2=sc.nextFloat();
58                     System.out.print("Enter operand 2: ");
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);
67                     }
68                     break;
69                 case 2:
70                     System.out.print("Enter operator: ");
71                     float sub1=sc.nextFloat();
72                     System.out.print("Enter operand 1: ");
73                     float sub2=sc.nextFloat();
74                     System.out.print("Enter operand 2: ");
75                     float sub3=sc.nextFloat();
76                     if(sub3==0)
77                     {
78                         cal.sub(sub1, sub2);
79                     }
80                     else
81                     {
82                         cal.sub(sub1, sub2, sub3);
83                     }
84                     break;
85                 case 3:
86                     System.out.print("Enter operator: ");
87                     float mul1=sc.nextFloat();
88                     System.out.print("Enter operand 1: ");
89                     float mul2=sc.nextFloat();
90                     System.out.print("Enter operand 2: ");
91                     float mul3=sc.nextFloat();
92                     if(mul3==0)
93                     {
94                         cal.mul(mul1, mul2);
95                     }
96                     else
97                     {
98                         cal.mul(mul1, mul2, mul3);
99                     }
100                    break;
101                case 4:
102                    System.out.print("Enter operator: ");
103                    float div1=sc.nextFloat();
104                    System.out.print("Enter operand 1: ");
105                    float div2=sc.nextFloat();
106                    System.out.print("Enter operand 2: ");
107                    float div3=sc.nextFloat();
108                    if(div3==0)
109                    {
110                        cal.div(div1, div2);
111                    }
112                    else
113                    {
114                        cal.div(div1, div2, div3);
115                    }
116                    break;
117            }
118        }
119    }
120 }

```



```

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 to subtract 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

```




```

83         }
84         break;
85     case 3:
86         System.out.print("Enter operand : ");
87         float mul1=sc.nextFloat();
88         System.out.print("Enter operand : ");
89         float mul2=sc.nextFloat();
90         cal.product(mul1,mul2);
91         break;
92     case 4:
93         System.out.print("Enter operand : ");
94         float div1=sc.nextFloat();
95         System.out.print("Enter operand : ");
96         float div2=sc.nextFloat();
97         if(div2==0)
98         {
99             throw new ArithmeticException("Divisor cannot be 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 invalid input");
110 }
111 catch(ArithmeticException ae)
112 {
113     System.out.println(ae.getMessage());
114 }
115
116

```



K.Durga sri sravya SAPID:51836473

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

Enter your choice:

2

Enter operand 1: 365

Enter operand 2: 255

Enter operand 3(if you want. else enter 0): 6

$365.0 - 255.0 - 6.0 = 104.0$

Process finished.

```

1 import java.util.Scanner;
2 public class RecursivePalindromeJava
3 {
4     // to check if string is palindrome using recursion
5     public static boolean checkPalindrome(String str)
6     {
7         if(str.length() == 0 || str.length() == 1)
8             return true;
9         if(str.charAt(0) == str.charAt(str.length()-1))
10             return checkPalindrome(str.substring(1, str.length()-1));
11         return false;
12     }
13     public static void main(String[] args)
14     {
15         Scanner sc = new Scanner(System.in);
16         System.out.println("K.Durga Sri Sravya SAPID:51836473");
17         System.out.println("Please enter a string :");
18         String strInput = sc.nextLine();
19         if(checkPalindrome(strInput))
20         {
21             System.out.println(strInput + " is palindrome");
22         }
23         else
24         {
25             System.out.println(strInput + " is not a palindrome");
26         }
27         sc.close();
28     }
29 }

```

× Terminal



K.Durga Sri Sravya SAPID:51836473

Please enter a string :

125521

125521 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("K.Durga Sri Sravya SAPID:");
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            {
17                count++;
18            }
19            n=n/10;
20
21        }
22        System.out.println("no of odd digits in number");
23
24    }
25 }

```

× Terminal



```

K.Durga Sri Sravya SAPID:51836473
enter a number :
134723
no of odd digits in number are : 4

Process finished.

```



```

1  class sorting
2  {
3
4      static int MAX = 100;
5
6      public static void sortStrings(String[] arr, int n)
7      {
8          String temp;
9
10         // Sorting strings using bubble sort
11         for (int j = 0; j < n - 1; j++)
12         {
13             for (int i = j + 1; i < n; i++)
14             {
15                 if (arr[j].compareTo(arr[i]) > 0)
16                 {
17                     temp = arr[j];
18                     arr[j] = arr[i];
19                     arr[i] = temp;
20                 }
21             }
22         }
23     }
24
25     // Driver code
26     public static void main(String[] args)
27     {
28         System.out.println("K.Durga Sri sravya SAPII");
29         String[] arr = { "sravya", "sri",
30                          "srinija", "sravs", "durga" };
31         int n = arr.length;
32         sortStrings(arr, n);
33         System.out.println("Strings in sorted order");
34         for (int i = 0; i < n; i++)
35             System.out.println("String " + (i + 1) + " is " + arr[i]);
36     }
37 }
38
39

```





```
K.Durga Sri sravya SAPID:51836473
Strings in sorted order are :
String 1 is durga
String 2 is sravs
String 3 is sravya
String 4 is sri
String 5 is srinija
```

```
Process finished.
```