

```

1  import java.util.Scanner;
2  import java.util.InputMismatchException;
3  class Calculator
4  {
5
6      public void add(float a, float b)
7      {
8          System.out.println(a+" "+b+"="+ (a+b));
9      }
10
11
12
13     public void subtract(float a, float b)
14     {
15         System.out.println(a+"-"+b+"="+ (a-b));
16     }
17
18
19     public void product(float a, float b)
20     {
21         System.out.println(a+"*"+b+"="+ (a*b));
22     }
23
24
25     public void division(float a, float b)
26     {
27         System.out.println(a+"/"+b+"="+ (a/b));
28     }
29 }
30 class Main
31 {
32     public static void main (String[] args) {
33         Calculator cal=new Calculator();
34         Scanner sc=new Scanner(System.in);
35         try
36         {
37             System.out.println("1. ADD\n2. SUBTR
38             int op=sc.nextInt();
39             switch(op)
40             {
41                 case 0:
42                     System.out.println("Exit..."
43                     System.exit(0);
44                     break;

```

```

45 case 1:
46     System.out.print("Enter operand 1: ");
47     float add1=sc.nextFloat();
48     System.out.print("Enter operand 2: ");
49     float add2=sc.nextFloat();
50
51     {
52         cal.add(add1, add2);
53     }
54
55     break;
56 case 2:
57     System.out.print("Enter operand 1: ");
58     float sub1=sc.nextFloat();
59     System.out.print("Enter operand 2: ");
60     float sub2=sc.nextFloat();
61
62     {
63         cal.subtract(sub1, sub2);
64     }
65
66     break;
67 case 3:
68     System.out.print("Enter operand 1: ");
69     float mul1=sc.nextFloat();
70     System.out.print("Enter operand 2: ");
71     float mul2=sc.nextFloat();
72     cal.product(mul1,mul2);
73     break;
74 case 4:
75     System.out.print("Enter operand 1: ");
76     float div1=sc.nextFloat();
77     System.out.print("Enter operand 2: ");
78     float div2=sc.nextFloat();
79     if(div2==0)
80     {
81         throw new ArithmeticException("Number d
82     }
83     cal.division(div1,div2);
84     break;
85 default:
86     System.out.println("Invalid choice: ");
87
88

```

```
87         }
88     }
89     catch(InputMismatchException ime)
90     {
91         System.out.println("You have entered")
92     }
93     catch(ArithmeticException ae)
94     {
95         System.out.println(ae.getMessage())
96     }
97     System.out.println("M.Raja Java2 Id:5183")
98 }
99 }
```

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

1

Enter operand 1: 2

Enter operand 2: 2

2.0+2.0=4.0

M.Raja Java2 Id:51834798

Process finished.

|

```

1  import java.util.Scanner;
2  class Main
3  {
4      public static boolean isPalindrome(String s)
5      {
6          if(s.length() == 0 || s.length() == 1)
7          {
8              return true;
9          }
10         if(s.charAt(0) == s.charAt(s.length()-1))
11         {
12             return isPalindrome(s.substring(1, s.length()-1));
13         }
14         else
15             return false;
16     }
17     public static void main (String[] args) {
18         Scanner sc=new Scanner(System.in);
19         System.out.print("\nEnter a String: ");
20         String s=sc.nextLine();
21         if(isPalindrome(s.toLowerCase().replaceAll(" ", "")))
22         {
23             System.out.println(s+" is a Palindrome");
24         }
25         else
26         {
27             System.out.println(s+" is not a Palindrome");
28         }
29         System.out.println("M.Raja Java2 Id: 51834798");
30     }
31 }

```

× Terminal



```

Enter a String: 232
232 is a Palindrome.
M.Raja Java2 Id: 51834798

Process finished.

```



```

1  import java.util.Scanner;
2  class Main
3  {
4      public static void main (String[] args) {
5          Scanner sc=new Scanner(System.in);
6          System.out.print("Enter a number: ");
7          int n=sc.nextInt();
8          countOdd(n);
9      }
10     public static void countOdd(int num)
11     {
12         int digit, countOdd=0;
13         int temp=num;
14         while(num>0)
15         {
16             digit=num%10;
17             num=num/10;
18             if(digit==0)
19             {
20                 continue;
21             }
22             if(digit%2!=0)
23             {
24                 countOdd++;
25             }
26         }
27         System.out.println("Number of even digit in "+temp+" is "+countOdd);
28         System.out.println(" M.Raja java2 Id:51834798");
29     }
30 }

```

× Terminal



```

Enter a number: 123456
Number of even digit in 123456 is 3
M.Raja java2 Id:51834798

Process finished.

```

```
1 class Demo{
2     public static void main (String args[]){
3         for(int i=0;i<=5;i++){
4
5             for(int j=1;j<=i;j++){
6                 int c=0;
7                 for(int k=1;k<=i;k++){
8                     if(i%k==0){
9                         c++;
10                    }
11                }
12                if(c==2){
13                    if(j==i||i==5&&j==3){
14                        System.out.print(j-1);
15                    }
16                    else if(j==i-1||i==5&&j==2){
17                        System.out.print(j+1);
18                    }
19                    else{
20                        System.out.print(j);
21                    }
22                }
23                else{
24                    System.out.print(j);
25                }
26            }
27            System.out.println();
28        }
29        System.out.println("M.Raja Java2 Id:51834798");
30    }
31 }
```

```
1
21
132
1234
13254
M.Raja Java2 Id:51834798

Process finished.
```