



practice.java



Saved

```
1  import java.util.Scanner;
2  class Calculator
3  {
4
5      public void add(int a,int b, int c)
6      {
7          System.out.println("result: "+(a+b+c));
8      }
9      public void add(int a,int b)
10     {
11         System.out.println("result: "+(a+b));
12     }
13     public void subtract(int a,int b,int c)
14     {
15         System.out.println("result: "+(a-b-c));
16     }
17     public void subtract(int a,int b)
18     {
19         System.out.println("result: "+(a-b));
20     }
21     public void multiply(int a,int b)
22     {
23         System.out.println("result: "+(a*b));
24     }
25     public void multiply(int a,int b,int c)
26     {
27         System.out.println("result: "+(a*b*c));
28     }
29     public void div(int a,int b)
30     {
31         System.out.println("result: "+(a/b));
32     }
33 }
34 class Main
35 {
36     public static void main (String[] args) {
37         Calculator obj =new Calculator();
38         Scanner sc=new Scanner(System.in);
39         System.out.println("A.Praveen\n51834643\n");
40     }
41 }
```



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stem.out.println("1.addition\n");

```

39 System.out.println("A.Praveen\n51834643\n1st Ques
40 try
41 {
42     System.out.println("1.addition\n2.subtraction
43     int n=sc.nextInt();
44     switch(n)
45     {
46         case 1:
47             System.out.print("Enter a no: ");
48             int a=sc.nextInt();
49             System.out.print("Enter a no: ");
50             int b=sc.nextInt();
51             System.out.print("Enter a no(if you w
52             int c=sc.nextInt();
53             if(c==0)
54             {
55                 obj.add(a,b);
56             }
57             else
58             {
59                 obj.add(a,b,c);
60             }
61             break;
62         case 2:
63             System.out.print("Enter a no: ");
64             int d=sc.nextInt();
65             System.out.print("Enter a no: ");
66             int e=sc.nextInt();
67             System.out.print("Enter a no(if you w
68             int f=sc.nextInt();
69             if(f==1)
70             {
71                 obj.subtract(d,e);
72             }
73             else
74             {
75                 obj.subtract(d,e,f);
76             }
77             break;
78     }
79     System.out.print("Enter a no: ");
80     int g=sc.nextInt();


```

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```
78     case 3:
79         System.out.print("Enter a no: ");
80         int g=sc.nextInt();
81         System.out.print("Enter a no: ");
82         int h=sc.nextInt();
83         System.out.print("Enter a no(if you want or
84         int i=sc.nextInt());
85         if(i==1)
86         {
87             obj.add(g,h);
88         }
89         else
90         {
91             obj.add(g,h,i);
92         }
93
94         break;
95     case 4:
96         System.out.print("Enter a bo: ");
97         int j=sc.nextInt();
98         System.out.print("Enter operand 2: ");
99         int k=sc.nextInt();
100        if(k==0)
101        {
102            throw new ArithmeticException("Number ca
103        }
104        obj.div(j,k);
105        break;
106    default:
107        System.out.println("Invalid option");
108
109
110    ArithmeticException ex)
111
112    stem.out.println(ex.getMessage());
113
114
115
```

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```
78         case 3:
79             System.out.print("Enter a no: ");
80             int g=sc.nextInt();
81             System.out.print("Enter a no: ");
82             int h=sc.nextInt();
83             System.out.print("Enter a no(i): ");
84             int i=sc.nextInt();
85             if(i==1)
86             {
87                 obj.add(g,h);
88             }
89             else
90             {
91                 obj.add(g,h,i);
92             }
93
94             break;
95         case 4:
96             System.out.print("Enter a bo: ");
97             int j=sc.nextInt();
98             System.out.print("Enter operanc");
99             int k=sc.nextInt();
100             if(k==0)
101             {
102                 throw new ArithmeticExcepti
103             }
104             obj.div(j,k);
105             break;
106         default:
107             System.out.println("Invalid opt
108     }
109 }
110 catch(ArithmeticException ex)
111 {
112     System.out.println(ex.getMessage());
113 }
114 }
115
```

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A.Praveen

51834643

1st Question

1.addition

2.subtraction

3.multiplication

4.division

Enter your choice:

1

Enter a no: 2

Enter a no: 3

Enter a no(if you want or else enter 1): 4

result: 9

Process finished.



practice.java



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```
1 import java.util.Scanner;
2 public class Palindrome {
3     public static boolean isPalindrome(String s) {
4         if(s.length()==0||s.length()==1) {
5             return true;
6         }
7         if(s.charAt(0)==s.charAt(s.length()-1)) {
8             return isPalindrome(s.substring(1,s.length()-2));
9         }
10        return false;
11    }
12    public static void main(String args[]) {
13        System.out.println("A.Praveen\n51834643\n2nd Q");
14        Scanner sc = new Scanner(System.in);
15        System.out.println("enter a string: ");
16        String input = sc.nextLine();
17        if(isPalindrome(input)) {
18            System.out.println(input+" is a palindrome");
19        }
20        else
21        System.out.println(input+" is not a palindrome");
22    }
23 }
```

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2nd Question

enter a string:

Madam

Madam is a palindrome

Process finished.

|



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```
1 import java.util.Scanner;
2 class Java {
3     public static void main(String args[]) {
4         Scanner sc = new Scanner(System.in);
5         System.out.println("A.Praveen\n51834643\n3rd Ql
6         System.out.print("enter a no: ");
7         int n = sc.nextInt();
8         int temp=n;
9         int count=0;
10        while(temp>0) {
11            if((temp%10)%2!=0) {
12                count+=1;
13            }
14            temp =temp/10;
15        }
16        System.out.println ("no of odd numbers: "+count
17    }
18 }
```



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3rd Question

enter a no: 134723

no of odd numbers: 4

Process finished.



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```
1 import java.util.Scanner;
2 class StringArray {
3     public static void main(String args[]) {
4         Scanner sc = new Scanner(System.in);
5         System.out.println("A.Praveen\n51834643\n5th Ql");
6         System.out.print("enter the size: ");
7         int size = sc.nextInt();
8         String[] arr = new String[size];
9         System.out.println("Enter all strings: ");
10        for(int i=0;i<size;i++) {
11            arr[i] = sc.next();
12        }
13        for(int i=0;i<size;i++) {
14            for(int j=i+1;j<size;j++) {
15                if(arr[i].length()>arr[j].length()) {
16                    String temp=arr[i];
17                    arr[i] = arr[j];
18                    arr[j] = temp;
19                }
20            }
21        }
22        System.out.println("In ascending order");
23        for(int i=0;i<size;i++) {
24            System.out.print(arr[i]+" ");
25        }
26    }
27 }
```



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5th Question

enter the size: 5

Enter all strings:

ushdb

abc

mnop

yz

1

In ascending order

1 yz abc mnop ushdb

Process finished.

|