

```

1 import java.util.Scanner;
2 import java.lang.Math;
3 import java.util.InputMismatchException;
4 class Calculator
5
6     int add(int no1,int no2)
7     {
8         return no1+no2;
9     }
10    double add(double no1,double no2)
11    {
12        return no1+no2;
13    }
14    float add(float no1,float no2)
15    {
16        return no1+no2;
17    }
18    int sub(int no1,int no2)
19    {
20        return no1-no2;
21    }
22    double sub(double no1,double no2)
23    {
24        return no1-no2;
25    }
26    float sub(float no1,float no2)
27    {
28        return no1-no2;
29    }
30    int mul(int no1,int no2)
31    {
32        return no1*no2;
33    }
34    double mul(double no1,double no2)
35    {
36        return no1*no2;
37    }
38    float mul(float no1,float no2)
39    {
40        return no1*no2;
41    }
42    int div(int no1,int no2)
43    {
44        return no1/no2;
45    }
46    double div(double no1,double no2)
47    {
48        return no1/no2;
49    }
50    float div(float no1,float no2)
51    {
52        return no1/no2;
53    }
54    long power(int no1,int no2) throws Exception
55    {
56        if(no1<0 || no2<0)
57        {
58            throw new Exception("no1 or no2 can't be negative");
59        }
60        if(no1==0 || no2==0)
61        {
62            throw new Exception("no1 or no2 can't be zero");
63        }
64        return (long)Math.pow(no1,no2);
65    }
66
67    class Solution
68
69    public static void main(String args[])
70    {
71        System.out.println("Name: Sk.Muneer\n Sap id : 51834598");
72        Scanner sc=new Scanner(System.in);
73        Calculator c=new Calculator();
74        try
75        {
76            while(true)
77            {
78                System.out.println("Choose your option\n1.add\n2.subtract\n3.multiply\n4.divide\n5.power");
79                int option=sc.nextInt();
80                switch(option)
81                {
82                    case 1 :
83                        System.out.println("Enter first number : ");
84                        double first=sc.nextInt();
85                        System.out.println("Enter second number : ");
86                        double second=sc.nextInt();
87                        System.out.println(first+"*"+second+"="+c.add(first,second));
88                        break;
89                    case 2 :
90                        System.out.println("Enter first number : ");
91                        first=sc.nextInt();
92                        System.out.println("Enter second number : ");
93                        second=sc.nextInt();
94                        System.out.println(first+"-"+second+"="+c.sub(first,second));
95                        break;

```

```

96     case 3:
97         System.out.println("Enter first number : ");
98         first=sc.nextInt();
99         System.out.println("Enter second number : ");
100        second=sc.nextInt();
101        if(first==0 && second==0)
102        {
103            throw new Exception("Both numbers cannot be 0 while
104        }
105        System.out.println(first+"*"+second+"="+c.mul(first,second));
106        break;
107    case 4:
108        System.out.println("Enter first number : ");
109        first=sc.nextInt();
110        System.out.println("Enter second number : ");
111        second=sc.nextInt();
112        if(second==0)
113        {
114            throw new Exception("You cannot divide a number with
115        }
116        System.out.println(first+"/"+second+"="+c.div(first,second));
117        break;
118    case 5:
119        System.out.println("Enter the base number : ");
120        int base=sc.nextInt();
121        System.out.println("Enter the exponent : ");
122        int exp=sc.nextInt();
123        System.out.println(c.power(base,exp));
124        break;
125    case 6:
126        System.exit(0);
127    default:
128        System.out.println("Invalid input");
129    }
130 }
131 }
132 catch(InputMismatchException i)
133 {
134     System.out.println("Invalid input");
135 }
136 catch(ArithmeticException ae)
137 {
138     System.out.println(ae.getMessage());
139 }
140 catch(Exception e)
141 {
142     System.out.println(e.getMessage());
143 }
144 }
145 }

```



Name: Sk.Muneer

Sap id : 51834598

Choose your option

1.add

2.subtract

3.Multiply

4.Division

5.power

6.exit

1

Enter first number :

466

Enter second number :

7865

$466.0 + 7865.0 = 8331.0$

Choose your option

1.add

2.subtract

3.Multiply

4.Division

5.power

6.exit

5

Enter the base number :

6

Enter the exponent :

54

9223372036854775807

Choose your option

1.add

2.subtract

3.Multiply

4.Division

5.power

6.exit

6

Process finished.

█

```
1 import java.util.Scanner;
2 class PalindromeCheck
3 {
4     public static boolean isPal(String s)
5     {
6         if(s.length() == 0 || s.length() == 1)
7             return true;
8         if(s.charAt(0) == s.charAt(s.length()-1))
9             return isPal(s.substring(1, s.length()-1));
10        return false;
11    }
12    public static void main(String[] args)
13    {System.out.println("Name: Sk.Muneer\n Sap id : 51834598")
14      Scanner scanner = new Scanner(System.in);
15      System.out.println("Enter the String for check:");
16      String string = scanner.nextLine();
17      System.out.println("Output: ");
18      if(isPal(string))
19          System.out.println(string + " is a palindrome");
20      else
21          System.out.println(string + " is not a palindrome");
22    }
23 }
```



Share



Name: Sk.Muneer

Sap id : 51834598

Enter the String for check:

bussub

Output:

bussub is a palindrome

Process finished.




```
1 import java.util.*;
2 public class OddNumbers
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Name: Sk.Muneer\n Sap id : 51834598");
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        System.out.println("odd Numbers: "+count);
22    }
23 }
24 }
```



Name: Sk.Muneer
Sap id : 51834598
Enter a number:
5234563
odd Numbers: 4

Process finished.



array.java



Saved

```
1 class Pattern
2 {
3     public static void main(String args[])
4     {System.out.println("Name: Sk.Muneer\n Sap id : 51834598");
5         int k=1;
6         for(int i=1;i<=5;i++)
7         {
8             for(int j=1;j<=i;j++)
9             {
10                if(j==1)
11                {
12                    k=j;
13                }
14                if(i!=4)
15                {
16                    if(i%2==0)
17                    {
18                        if(j%2!=0)
19                        {
20                            k=j+1;
21                            System.out.print(k);
22                            k=k-1;
23                        }
24                        else
25                        {
26                            System.out.print(k);
27                        }
28                    }
29                    else
30                    {
31                        if(j%2==0)
32                        {
33                            k=j+1;
34                            System.out.print(k);
35                            k=k-1;
36                        }
37                        else
38                        {
39                            System.out.print(k);
40                        }
41                    }
42                }
43                else
44                {
45                    System.out.print(j);
46                }
47            }
48            System.out.println();
49        }
50    }
```



Make public



Name: Sk.Muneer
Sap id : 51834598
|
21
132
1234
13254

Process finished.

```

1  class BubbleSort
2  {
3      public static void Main (String[] args)
4      {System.out.println("Name: Sk.Muneer\n Sap id : 51834598")
5      int a[] = {1,56,87,53,2,67,89};
6          for(int j = 0; j<a.length; j++)
7          {
8              boolean swapped = false;
9              int i = 0;
10             while(i<a.length-1)
11             {
12                 if (a[i] > a[i+1])
13                 {
14                     int temp = a[i];
15                     a[i] = a[i+1];
16                     a[i+1] = temp;
17                     swapped = true;
18                 }
19                 i++;
20             }
21             if (!swapped)
22                 break;
23         }
24         System.out.println("After Bubble Sorting: ");
25         for(int x : a)
26         {
27             System.out.print(x+" ");
28         }
29     }
30 }

```



Name: Sk.Muneer
Sap id : 51834598
After Bubble Sorting:
1 2 53 56 67 87 89
Process finished.