

```
5:26 100% 100% LTE 24G 100% 100% 100%
day2.java
Saved
```

```
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("Question no: 1");
72         System.out.println("Author: B.padma sai");
73         System.out.println("Sap id: 51834617");
74         Scanner sc=new Scanner(System.in);
75         Calculator c=new Calculator();
76         try
77         {
78             while(true)
79         {
80             System.out.println("Choose your option\n1.add");
81             int option=sc.nextInt();
82             switch(option)
83             {
84                 case 1 :
85                     System.out.print("Enter first number : ");
86                     double first=sc.nextInt();
87                     System.out.print("Enter second number : ");
88                     double second=sc.nextInt();
89                     System.out.println(first+"+"+second+"="+c);
90                     break;
91                 case 2 :
92                     System.out.print("Enter first number : ");
93                     first=sc.nextInt();
94                     System.out.print("Enter second number : ");
95                     second=sc.nextInt();
96                     System.out.println(first+"-"+second+"="+c);
97                     break;
98                 case 3 :
99                     System.out.print("Enter first number : ");
100                    first=sc.nextInt();
101                    System.out.print("Enter second number : ");
102                    second=sc.nextInt();
103                    if(first==0 && second==0)
104                    {
105                        throw new Exception("Both numbers cannot be zero");
106                    }
107                    System.out.println(first+"*"+second+"="+c);
108                    break;
109                 case 4 :
110                     System.out.print("Enter first number : ");
111                     first=sc.nextInt();
112                     System.out.print("Enter second number : ");
113                     second=sc.nextInt();
114                     if(second==0)
115                     {
116                         throw new Exception("You cannot divide by zero");
117                     }
118                     System.out.println(first+"/"+second+"="+c);
119                     break;
120                 case 5 :
121                     System.out.print("Enter the base number : ");
122                     int base=sc.nextInt();
123                     System.out.print("Enter the exponent : ");
124                     int exp=sc.nextInt();
125                     System.out.println(c.power(base,exp));
126                     break;
127                 case 6 :
128                     System.exit(0);
129                 default :
130                     System.out.println("Invalid input");
131             }
132         }
133     }
134 }
135 catch(InputMismatchException i)
136 {
137     System.out.println("Invalid input");
138 }
139 catch(ArithmeticException ae)
140 {
141     System.out.println(ae.getMessage());
142 }
143 catch(Exception e)
144 {
145     System.out.println(e.getMessage());
146 }
147 }
148 }
```

x Terminal



```
Question no: 1
Author: B.padma sai
Sap id: 51834617
Choose your option
1.add
2.subtract
3.multiply
4.Division
5.power
6.exit
1
Enter first number :
34
Enter second number :
6
34.0+6.0=40.0
Choose your option
1.add
2.subtract
3.multiply
4.Division
5.power
6.exit
6

Process finished.
```

Ad



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recursion.java



Saved

```
1 import java.util.Scanner;
2 public class RecursionPalindrome
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         System.out.println("Question no:2");
16         System.out.println("Author: B.padmasai");
17         System.out.println("Sap id: 51834617");
18         Scanner sc = new Scanner(System.in);
19         System.out.println("Enter a string : ");
20         String strInput = sc.nextLine();
21         if(checkPalindrome(strInput))
22         {
23             System.out.println(strInput + " is palindrome");
24         }
25         else
26         {
27             System.out.println(strInput + " not a palindrome");
28         }
29         sc.close();
30     }
31 }
```



Terminal



```
Question no:2
Author: B.padmasai
Sap id: 51834617
Enter a string :
roor
roor is palindrome
```



day2.java

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```
1 import java.util.*;
2 public class OddNumbers
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Question no:3");
7         System.out.println("Author : B.padma sai");
8         System.out.println("SAP : 51834617");
9         int count=0;
10        int rem=0 ;
11        Scanner sc=new Scanner(System.in);
12        System.out.println("Enter a number: ");
13        int n= sc.nextInt();
14        while(n>0)
15        {
16            rem=n%10;
17            if(rem%2!=0)
18            {
19                count++;
20            }
21            n=n/10;
22        }
23        System.out.println("odd Numbers: "+count);
24    }
25 }
26 }
```



Terminal



```
Question no:3
Author : B.padma sai
SAP : 51834617
Enter a number:
13426829
odd Numbers: 3
```



day2.java

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```
1 import java.util.Scanner;
2 class Pattern
3 {
4     public static void main(String args[])
5     {
6         System.out.println("Question no: 4");
7         System.out.println("Author: B.padma sai");
8         System.out.println("Sap id: 51834617");
9         int k=1;
10        for(int i=1;i<=5;i++)
11        {
12            for(int j=1;j<=i;j++)
13            {
14                if(j==1)
15                {
16                    k=j;
17                }
18                if(i!=4)
19                {
20                    if(i%2==0)
21                    {
22                        if(j%2!=0)
23                        {
24                            k=j+1;
25                            System.out.print(k);
26                            k=k-1;
27                        }
28                        else
29                        {
30                            System.out.print(k);
31                        }
32                    }
33                else
34                {
35                    if(j%2==0)
36                    {
37                        k=j+1;
38                        System.out.print(k);
39                        k=k-1;
40                    }
41                    else
42                    {
43                        System.out.print(k);
44                    }
45                }
46            }
47            else
48            {
49                System.out.print(j);
50            }
51        }
52        System.out.println();
53    }
54 }
```

x Terminal



Question no: 4
Author: B.padma sai
Sap id: 51834617
1
21
132
1234
13254

Process finished.

Ad



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day2.java



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```
1 class BubbleSort
2 {
3     public static void main (String[] args)
4     {
5         int a[] = {16, 19, 11, 15, 10, 12, 14};
6         for(int j = 0; j<a.length; j++)
7         {
8             boolean swapped = false;
9             int i = 0;
10            while(i<7-1)
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 }
```



Terminal



```
After Bubble Sorting:
10 11 12 14 15 16 19
Process finished.
```

JAVA QUIZ DAY 5

Attempts allowed: 1

This quiz closed on Wednesday, 22 July
2020, 4:00 PM

Time limit: 30 mins

SUMMARY OF YOUR PREVIOUS ATTEMPTS

State	Marks	Grade	Review
	/	/	
Finished	20.00	10.00	

Submitted
Wednesday,
22 July
2020, 3:56
PM



YOUR FINAL GRADE
FOR THIS QUIZ IS
4.25/10.00.

No more attempts are allowed

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