classes and objects.java
Saved

```
//title:
//Description:
//tags:

import java.util.*;

 // Compiler version JDK 11.0.2
import java.util.InputMismatchException;
class Calculator
{

    public void add(float a,float b, float c)
    {
        System.out.println(a+"+"+b+"+"+c+"="+(a
    }
    public void add(float a,float b)
    {
        System.out.println(a+"+"+b+"="+(a+b));
    }


    public void subtract(float a,float b, float
    {
        System.out.println(a+"-"+b+"-"+c+"="+(a
    }
    public void subtract(float a,float b)
    {
        System.out.println(a+"-"+b+"="+(a-b));
    }


    public void product(float a,float b)
    {
        System.out.println(a+"*"+b+"="+(a*b));
    }


    public void division(float a,float b)
    {
        System.out.println(a+"/"+b+"="+(a/b));
    }
}
public class Main
{
    public static void main (String[] args) {
        Calculator cal=new Calculator();
        Scanner sc=new Scanner(System.in);
        tln("Author:b.Prab
```

Make public

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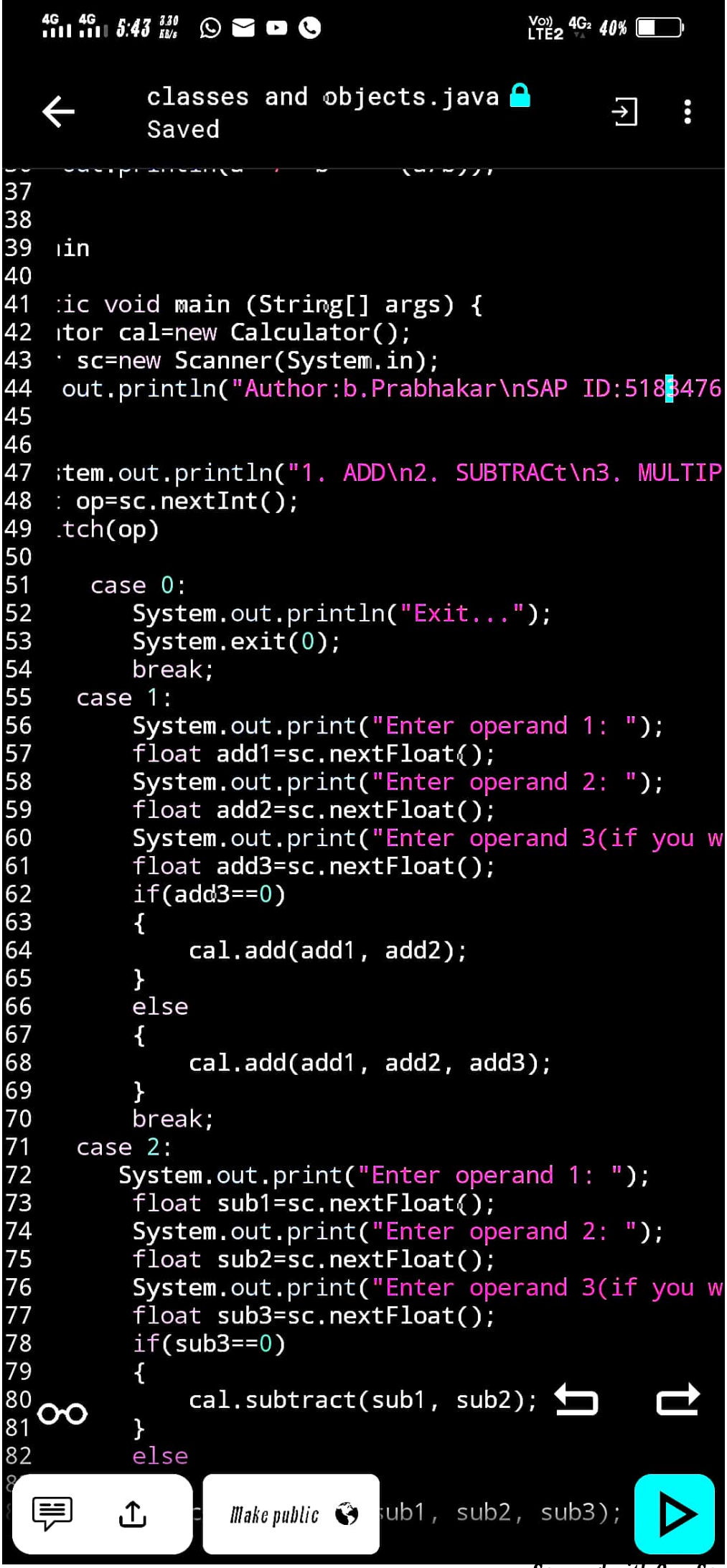
```
36          System.out.println(a+"/"+b+"="+(a/b));
37      }
38  }
39  public class Main
40  {
41      public static void main (String[] args) {
42          Calculator cal=new Calculator();
43          Scanner sc=new Scanner(System.in);
44          System.out.println("Author:b.Prabhakar\n
45          try
46          {
47              System.out.println("1. ADD\n2. SUBTI
48              int op=sc.nextInt();
49              switch(op)
50              {
51                   case 0:
52                      System.out.println("Exit..."
53                      System.exit(0);
54                      break;
55                  case 1:
56                      System.out.print("Enter oper
57                      float add1=sc.nextFloat();
58                      System.out.print("Enter oper
59                      float add2=sc.nextFloat();
60                      System.out.print("Enter oper
61                      float add3=sc.nextFloat();
62                      if(add3==0)
63                      {
64                          cal.add(add1, add2);
65                      }
66                      else
67                      {
68                          cal.add(add1, add2, add3
69                      }
70                      break;
71                  case 2:
72                     System.out.print("Enter operat
73                      float sub1=sc.nextFloat();
74                      System.out.print("Enter oper
75                      float sub2=sc.nextFloat();
76                      System.out.print("Enter oper
77                      float sub3=sc.nextFloat();
78                      if(sub3==0)
79                      {
80                          cal.subtract(sub1, sub2
81                      }
82                      else
                        cal.subtract(sub1
```

Make public



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```
78          if(sub3==0)
79          {
80              cal.subtract(sub1, sub2);
81          }
82          else
83          {
84              cal.subtract(sub1, sub2, sub3);
85          }
86          break;
87      case 3:
88          System.out.print("Enter operand 1: ");
89          float mul1=sc.nextFloat();
90          System.out.print("Enter operand 2: ");
91          float mul2=sc.nextFloat();
92          cal.product(mul1,mul2);
93          break;
94      case 4:
95          System.out.print("Enter operand 1: ");
96          float div1=sc.nextFloat();
97          System.out.print("Enter operand 2: ");
98          float div2=sc.nextFloat();
99          if(div2==0)
100         {
101             throw new ArithmeticException("Number
102         }
103         cal.division(div1,div2);
104         break;
105 default:
106         System.out.println("Invalid choice: ");
107
108
109 nputMismatchException ime)
110
111 tem.out.println("You have entered input of wron
112
113 rithmeticException ae)
114
115 tem.out.println(ae.getMessage());
116
117
118
119
```

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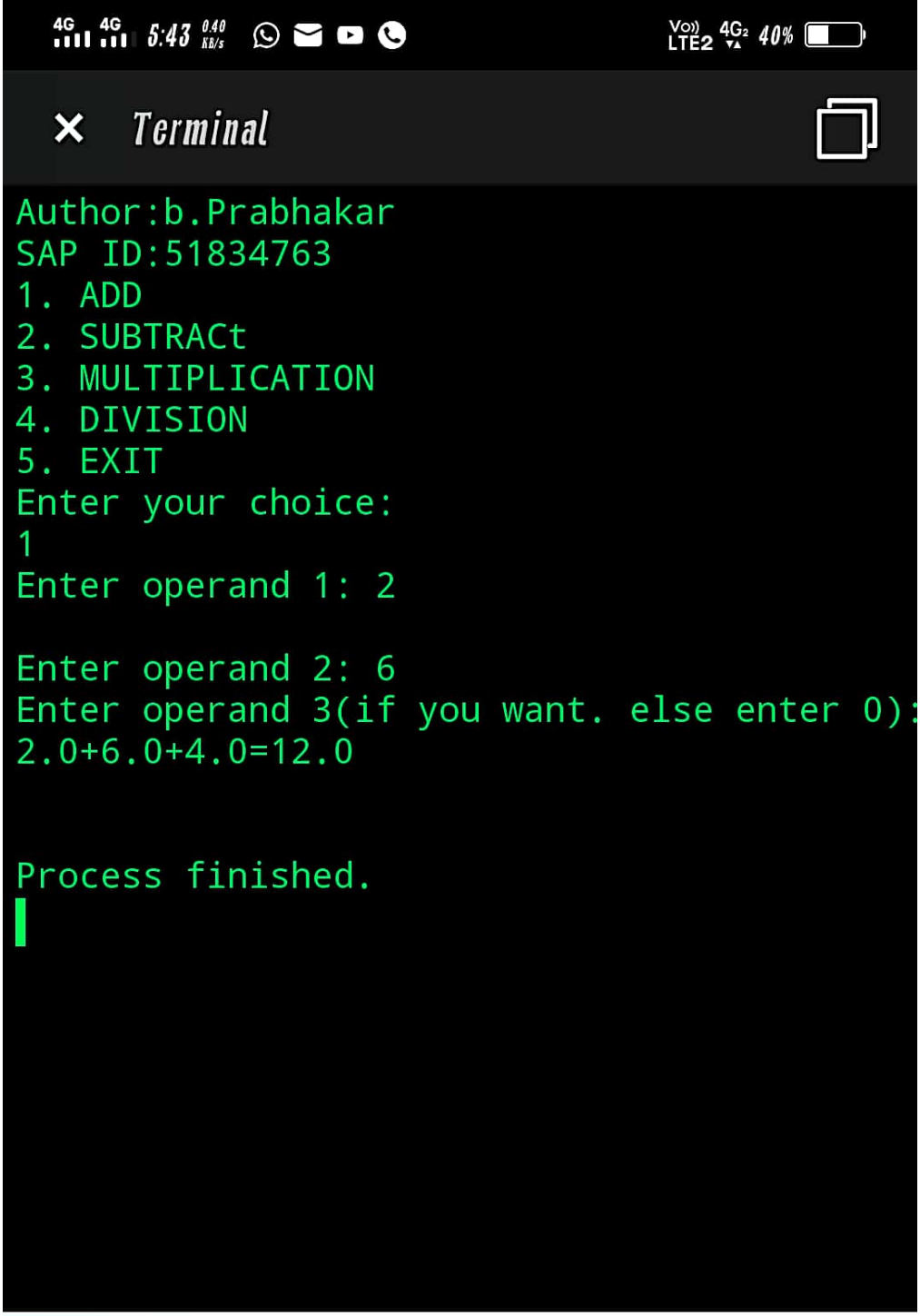
```
                    {
                        cal.subtract(sub1, sub2
                    }
                    break;
                case 3:
                    System.out.print("Enter oper
                    float mul1=sc.nextFloat();
                    System.out.print("Enter oper
                    float mul2=sc.nextFloat();
                    cal.product(mul1,mul2);
                    break;
                case 4:
                    System.out.print("Enter oper
                    float div1=sc.nextFloat();
                    System.out.print("Enter oper
                    float div2=sc.nextFloat();
                    if(div2==0)
                    {
                        throw new ArithmeticExce
                    }
                    cal.division(div1,div2);
                    break;
                default:
                    System.out.println("Invalid
            }
        }
        catch(InputMismatchException ime)
        {
            System.out.println("You have entered
        }
        catch(ArithmeticException ae)
        {
            System.out.println(ae.getMessage())
        }
    }
}
```

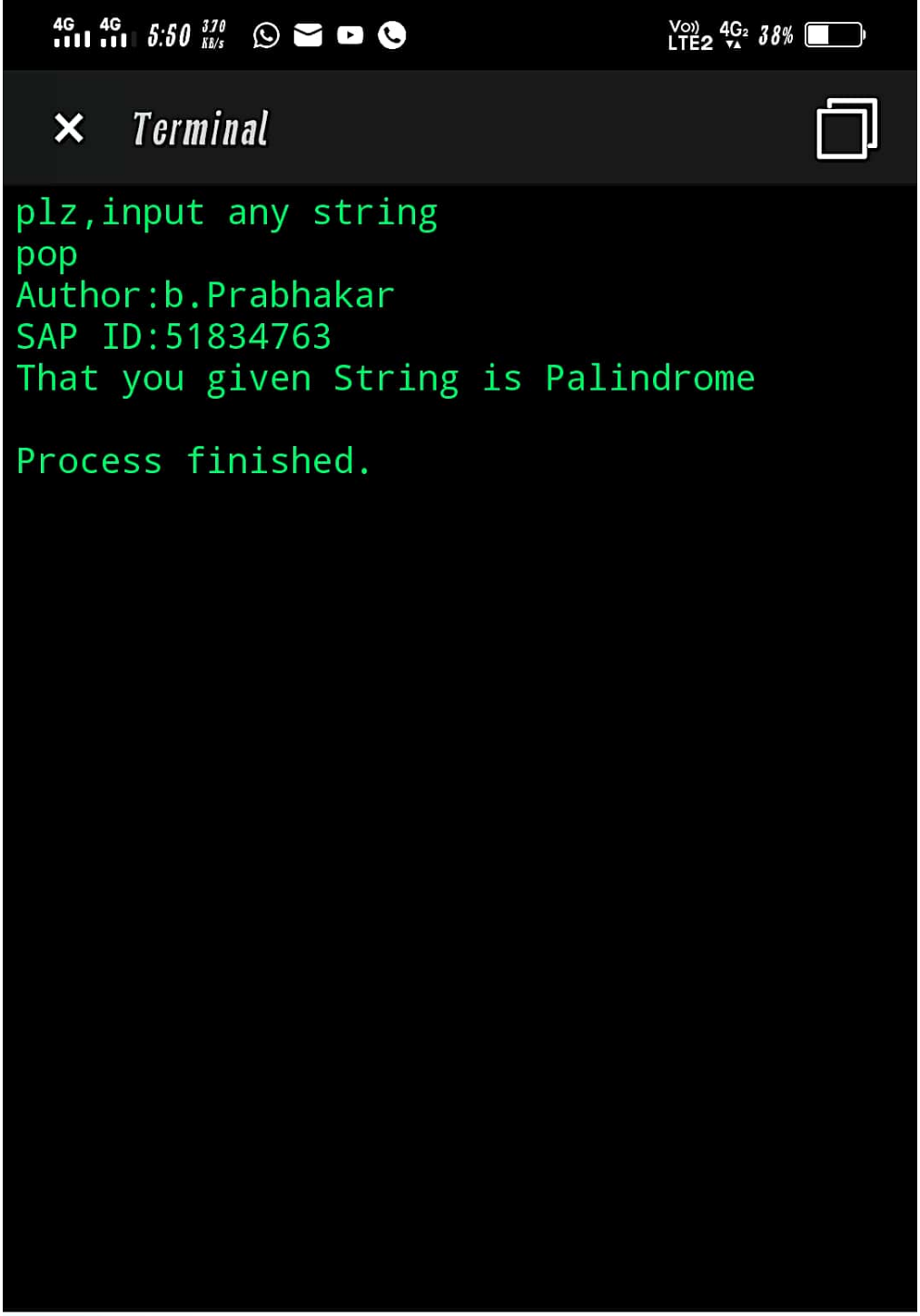


recursion.java
Saved

```
// title:
// Description:
// tags:

1  import java.util.*;
2
3   // Compiler version JDK 11.0.2
4  public class Main
5  {
6    public static boolean isPalindrome(String stri
7    {
8      if (low >= high) {
9        return true;
10     }
11
12     if (string.charAt(low) != string.charAt(high
13       return false;
14     }
15
16     return isPalindrome(string, low + 1, high -
17   }
18
19   public static void main(String[] args)
20   {
21     Scanner DC=new Scanner(System.in);
22     System.out.println("plz,input any string");
23     String string =DC.nextLine();
24
25     if (isPalindrome(string, 0, string.length()
26       System.out.println("Author:b.Prabhakar\nSA
27       System.out.print("That you given String is
28     } else {
29       System.out.print("That you given String is
30     }
31   }
32 }
33
```

Make public



condition statement.java
Saved

```
// title:
// Description:
// tags:

1  import java.util.*;
2
3   // Compiler version JDK 11.0.2
4  public class Main
5  {
6    public static void main (String[] args)
7    {
8      System.out.println("Author :b.Prabhakar\n SA
9      int count=0;
10     int rem=0 ;
11     Scanner sc=new Scanner(System.in);
12     System.out.println("enter a number you want
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     }
24     System.out.println("These are the no of odd
25
26   }
27 }
28
29
```

Make public

String.java
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```
// title:
// Description:
// tags:

import java.util.*;

 // Compiler version JDK 11.0.2
class Main
{
  public static void swap(int[] arr, int a, int
  {
    int temp = arr[a];
    arr[a] = arr[b];
    arr[b] = temp;
  }

  public static void bubbleSort(int[] arr, int m
  {
    for (int a = 0; a < m - 1; a++) {
      if (arr[a] > arr[a + 1]) {
        swap(arr, a, a + 1);
      }
    }
    if (m - 1 > 1) {
      bubbleSort(arr, m - 1);
    }
  }

  public static void main(String[] args)
  {
    int[] arr = { 4, 2, 8, 10, 7, 6, 0 };

    bubbleSort(arr, arr.length);

    System.out.println("Author:B.Prabhakar\n SAF
    System.out.println(Arrays.toString(arr));
  }
}
```

Make public

String.java
Saved

Terminal

```
Author:B.Prabhakar
 SAP ID:51834763
[0, 2, 4, 6, 7, 8, 10]


Process finished.
```