fifth..java
Saved

```java
import java.util.*;

import java.util.Arrays;

class Main
{
    public static void swap(int[] arr, int a, int b
    {
        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 = { 5, 1, 7, 9, 8, 0, 2 };

        bubbleSort(arr, arr.length);

        System.out.println("Author:harsha\n SAP ID:
        System.out.println(Arrays.toString(arr));
    }
}
```

Terminal

```
Author:harsha
 SAP ID:51834755
[0, 1, 2, 5, 7, 8, 9]

Process finished.
```

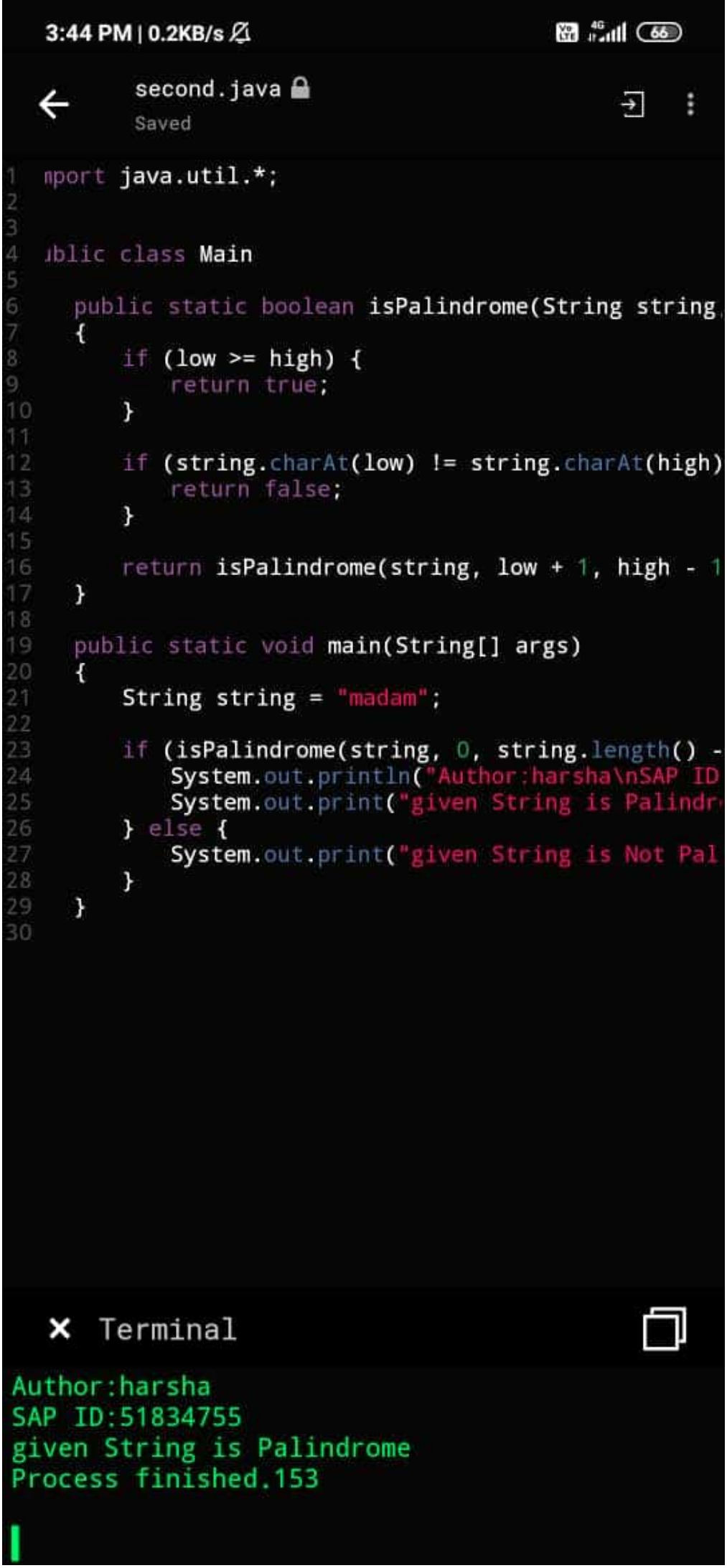
```java
import java.util.*;
import java.util.Scanner;
import java.util.InputMismatchException;
class Calculator
{

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


    public void subtract(float a,float b, float c)
    {
        System.out.println(a+"-"+b+"-"+c+"="+(a-b-
    }
    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);
        System.out.println("Author: harsha\nSAP II
        try
        {
            System.out.println("1. ADD\n2. SUBTRAC
            int op=sc.nextInt();
            switch(op)
            {
                case 0:
                    System.out.println("Exit ");
                    System.exit(0);
                    break;
```



third.java
Saved

```java
import java.util.*;

import java.util.*;
public class Main
{
  public static void main (String[] args)
  {
    System.out.println("Author :harsha \n SAP ID:51
    int count=0;
    int rem=0 ;
    Scanner sc=new Scanner(System.in);
    System.out.println("enter a number :");
    int n= sc.nextInt();
    while(n>0)
    {
      rem=n%10;
      if(rem%2!=0)
      {
        count++;
      }
      n=n/10;

    }
    System.out.println("no of odd digits in number

  }
}
```

Terminal

```
Author :harsha
 SAP ID:51834755
enter a number :
55
no of odd digits in number are ; 2
```

first.java

Saved

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

Make public

first.java

Saved

```
49
50      case 0:
51          System.out.println("Exit...");
52          System.exit(0);
53          break;
54      case 1:
55          System.out.print("Enter operand 1: ");
56          float add1=sc.nextFloat();
57          System.out.print("Enter operand 2: ");
58          float add2=sc.nextFloat();
59          System.out.print("Enter operand 3(if you wa
60          float add3=sc.nextFloat();
61          if(add3==0)
62          {
63              cal.add(add1, add2);
64          }
65          else
66          {
67              cal.add(add1, add2, add3);
68          }
69          break;
70      case 2:
71         System.out.print("Enter operand 1: ");
72          float sub1=sc.nextFloat();
73          System.out.print("Enter operand 2: ");
74          float sub2=sc.nextFloat();
75          System.out.print("Enter operand 3(if you wa
76          float sub3=sc.nextFloat();
77          if(sub3==0)
78          {
79              cal.subtract(sub1, sub2);
80          }
81          else
82          {
83              cal.subtract(sub1, sub2, sub3);
84          }
85          break;
86      case 3:
87          System.out.print("Enter operand 1: ");
88          float mul1=sc.nextFloat();
89          System.out.print("Enter operand 2: ");
90          float mul2=sc.nextFloat();
91          cal.product(mul1,mul2);
92          break;
93      case 4:
94          System.out.print("Enter operand 1: ");
95          float div1=sc.nextFloat();
96          System.out.print("Enter operand 2: ");
97          float div2=sc.nextFloat();
98          if(div2==0)
99          {
                                    thmeticException("Nu
                                                div2);
```

Make public