```java
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+
    }
    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);
        System.out.println("K.Durga sri sr
```

```
}
public class Main
{
    public static void main (String[] args) {
        Calculator cal=new Calculator();
        Scanner sc=new Scanner(System.in);
        System.out.println("K.Durga sri sravya S
        try
        {
            System.out.println("1. ADD\n2. SUBTR
            int op=sc.nextInt();
            switch(op)
            {
                 case 0:
                    System.out.println("Exit...'
                    System.exit(0);
                    break;
                case 1:
                    System.out.print("Enter oper
                    float add1=sc.nextFloat();
                    System.out.print("Enter oper
                    float add2=sc.nextFloat();
                    System.out.print("Enter oper
                    float add3=sc.nextFloat();
                    if(add3==0)
                    {
                        cal.add(add1, add2);
                    }
                    else
                    {
                        cal.add(add1, add2, add3
                    }
                    break;
                case 2:
                   System.out.print("Enter opera
                    float sub1=sc.nextFloat();
                    System.out.print("Enter oper
                    float sub2=sc.nextFloat();
                    System.out.print("Enter oper
                    float sub3=sc.nextFloa
                    if(sub3==0)
                    {
```

```
66              cal.add(add1, add2, add3);
67          }
68          break;
69      case 2:
70         System.out.print("Enter operand 1: ");
71          float sub1=sc.nextFloat();
72          System.out.print("Enter operand 2: ");
73          float sub2=sc.nextFloat();
74          System.out.print("Enter operand 3(if you
75          float sub3=sc.nextFloat();
76          if(sub3==0)
77          {
78              cal.subtract(sub1, sub2);
79          }
80          else
81          {
82              cal.subtract(sub1, sub2, sub3);
83          }
84          break;
85      case 3:
86          System.out.print("Enter operand 1: ");
87          float mul1=sc.nextFloat();
88          System.out.print("Enter operand 2: ");
89          float mul2=sc.nextFloat();
90          cal.product(mul1,mul2);
91          break;
92      case 4:
93          System.out.print("Enter operand 1: ");
94          float div1=sc.nextFloat();
95          System.out.print("Enter operand 2: ");
96          float div2=sc.nextFloat();
97          if(div2==0)
98          {
99              throw new ArithmeticException("Number
100         }
101         cal.division(div1,div2);
102         break;
103 default:
104         System.out.println("Invalid choice: ");
105
```


matchException ime)

```
83                  }
84                  break;
85              case 3:
86                  System.out.print("Enter operand 
87                  float mul1=sc.nextFloat();
88                  System.out.print("Enter operand 2
89                  float mul2=sc.nextFloat();
90                  cal.product(mul1,mul2);
91                  break;
92              case 4:
93                  System.out.print("Enter operand 
94                  float div1=sc.nextFloat();
95                  System.out.print("Enter operand 2
96                  float div2=sc.nextFloat();
97                  if(div2==0)
98                  {
99                      throw new ArithmeticExceptio
100                 }
101                 cal.division(div1,div2);
102                 break;
103             default:
104                 System.out.println("Invalid choi
105         }
106     }
107     catch(InputMismatchException ime)
108     {
109         System.out.println("You have entered inpu
110     }
111     catch(ArithmeticException ae)
112     {
113         System.out.println(ae.getMessage());
114     }
115
116
```

```
K.Durga sri sravya SAPID:51836473
1. ADD
2. SUBTRACTION
3. MULTIPLICATION
4. DIVISION
5. EXIT
Enter your choice:
2
Enter operand 1: 365
Enter operand 2: 255
Enter operand 3(if you want. else enter 0): 6
365.0-255.0-6.0=104.0

Process finished.
```

```java
import java.util.Scanner;
public class RecursivePalindromeJava
{
    // to check if string is palindrome using recu
    public static boolean checkPalindrome(String s
    {
        if(str.length() == 0 || str.length() == 1)
            return true;
        if(str.charAt(0) == str.charAt(str.length()
            return checkPalindrome(str.substring(1,
        return false;
    }
    public static void main(String[]args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("K.Durga Sri Sravya SAPI
        System.out.println("Please enter a string :
        String strInput = sc.nextLine();
        if(checkPalindrome(strInput))
        {
            System.out.println(strInput + " is palir
        }
        else
        {
            System.out.println(strInput + " not a pa
        }
        sc.close();
    }
}
```

× Terminal

```
K.Durga Sri Sravya SAPID:51836473
Please enter a string :
125521
125521 is palindrome

Process finished.
```

```java
import java.util.*;
public class Main
{
  public static void main (String[] args)
  {
    System.out.println("K.Durga Sri Sravya SAPID:
    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 numbe

  }
}
```

Terminal

```
K.Durga Sri Sravya SAPID:51836473
enter a number :
134723
no of odd digits in number are : 4

Process finished.
```

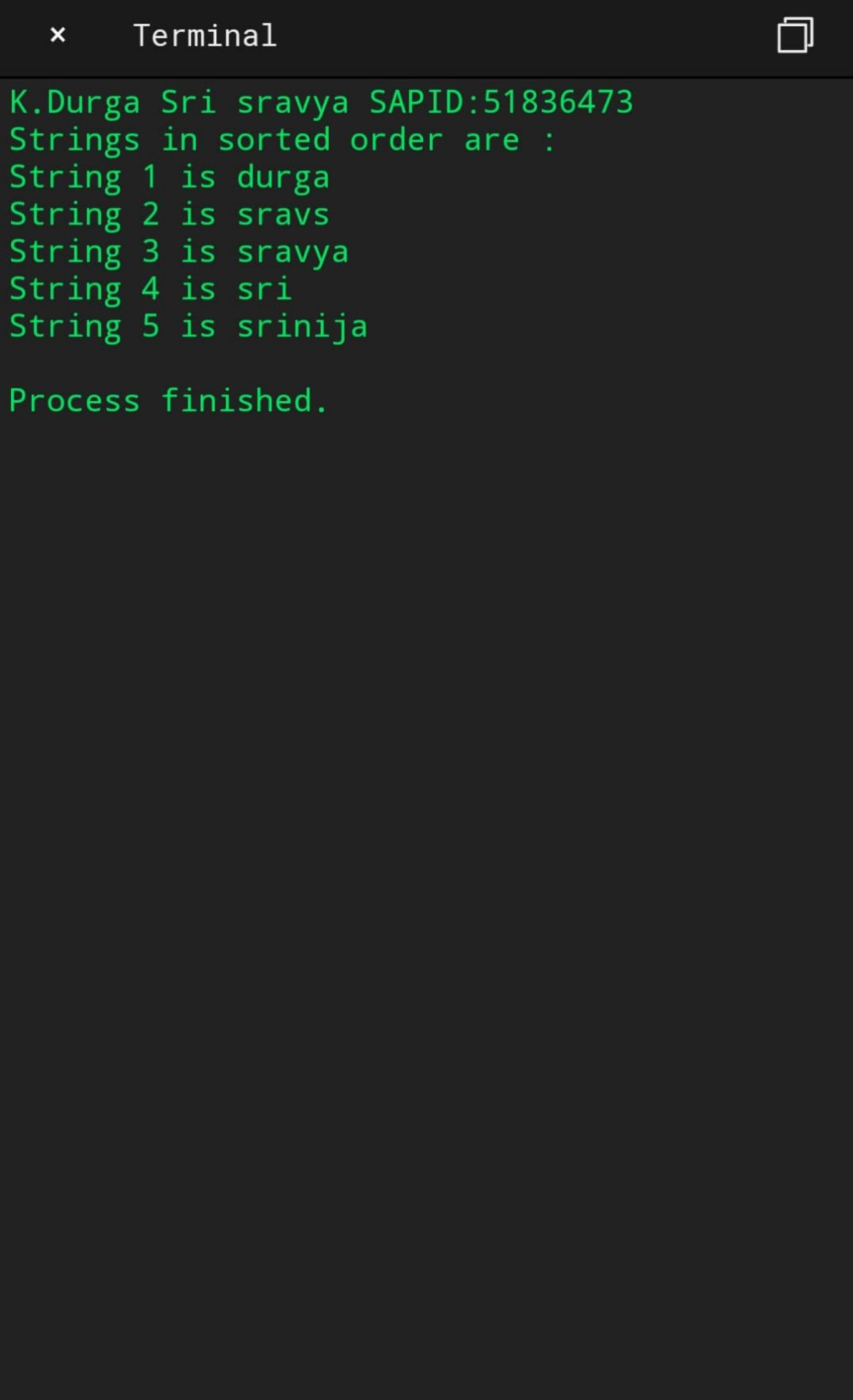
```java
class sorting
{

    static int MAX = 100;

    public static void sortStrings(String[] arr, i
    {
        String temp;

        // Sorting strings using bubble sort
        for (int j = 0; j < n - 1; j++)
        {
            for (int i = j + 1; i < n; i++)
            {
                if (arr[j].compareTo(arr[i]) > 0)
                {
                    temp = arr[j];
                    arr[j] = arr[i];
                    arr[i] = temp;
                }
            }
        }
    }

    // Driver code
    public static void main(String[] args)
    {
      System.out.println("K.Durga Sri sravya SAPI[
        String[] arr = { "sravya", "sri",
                         "srinija", "sravs", "durga" };
        int n = arr.length;
        sortStrings(arr, n);
        System.out.println("Strings in sorted orde
        for (int i = 0; i < n; i++)
            System.out.println("String " + (i + 1) -
    }
}
```


Terminal
K.Durga Sri sravya SAPID:51836473
Strings in sorted order are :
String 1 is durga
String 2 is sravs
String 3 is sravya
String 4 is sri
String 5 is srinija
Process finished.