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


    public void subtract(float a,float b, flo
    {
        System.out.println(a+"-"+b+"-"+c+"="+
    }
    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: Na
```

```
42  :r sc=new Scanner(System.in);
43  ).out.println("Author: Naveen \nSAP_ID:518345
44
45
46  'stem.out.println("1. ADD\n2. SUBTRACt\n3. MU
47  )t op=sc.nextInt();
48  /itch(op)
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 y
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 y
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          }
```

```
                float sub2=sc.nextFloat();
                System.out.print("Enter operand 3(
                float sub3=sc.nextFloat();
                if(sub3==0)
                {
                    cal.subtract(sub1, sub2);
                }
                else
                {
                    cal.subtract(sub1, sub2, sub3)
                }
                break;
            case 3:
                System.out.print("Enter operand 1:
                float mul1=sc.nextFloat();
                System.out.print("Enter operand 2:
                float mul2=sc.nextFloat();
                cal.product(mul1,mul2);
                break;
            case 4:
                System.out.print("Enter operand 1:
                float div1=sc.nextFloat();
                System.out.print("Enter operand 2:
                float div2=sc.nextFloat();
                if(div2==0)
                {
                    throw new ArithmeticException(
                }
                cal.division(div1,div2);
                break;
            default:
                System.out.println("Invalid choice
        }

itch(InputMismatchException ime)

        System.out.println("You have entered input

itch(ArithmeticException ae)

        System.out.println(ae.getMessage());
```

```
Author: Naveen
SAP_ID:51834537
1. ADD
2. SUBTRACt
3. MULTIPLICATION
4. DIVISION
5. EXIT
Enter your choice:
3
Enter operand 1: 1
Enter operand 2: 3
1.0*3.0=3.0

Process finished.
```

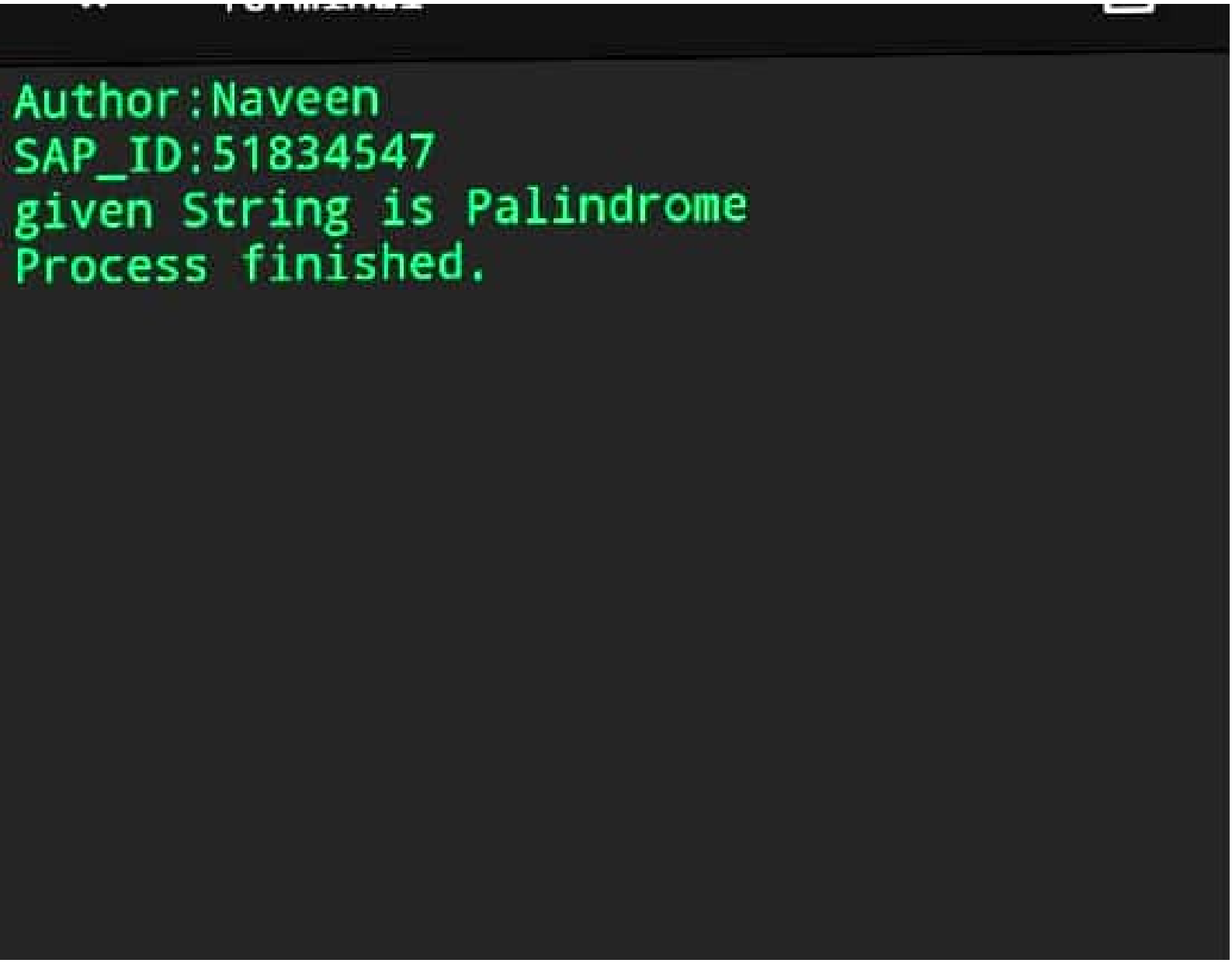
```java
public class Main
{
  public static boolean isPalindrome(String st
  {
    if (low >= high) {
      return true;
    }

    if (string.charAt(low) != string.charAt(hi
      return false;
    }

    return isPalindrome(string, low + 1, high
  }

  public static void main(String[] args)
  {
    String string = "madam";

    if (isPalindrome(string, 0, string.length(
      System.out.println("Author:Naveen \nSAP_
      System.out.print("given String is Palinc
    } else {
      System.out.print("given String is Not Pa
    }
  }
}
```



```java
import java.util.*;
public class Main
{
  public static void main (String[] args)
  {
    System.out.println("Author :Naveen \n SAP_
    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 nu

  }
}
```

```
Author :Naveen
 SAP_ID:51834547
enter a number :
3
no of odd digits in number are ; 1

Process finished.
```