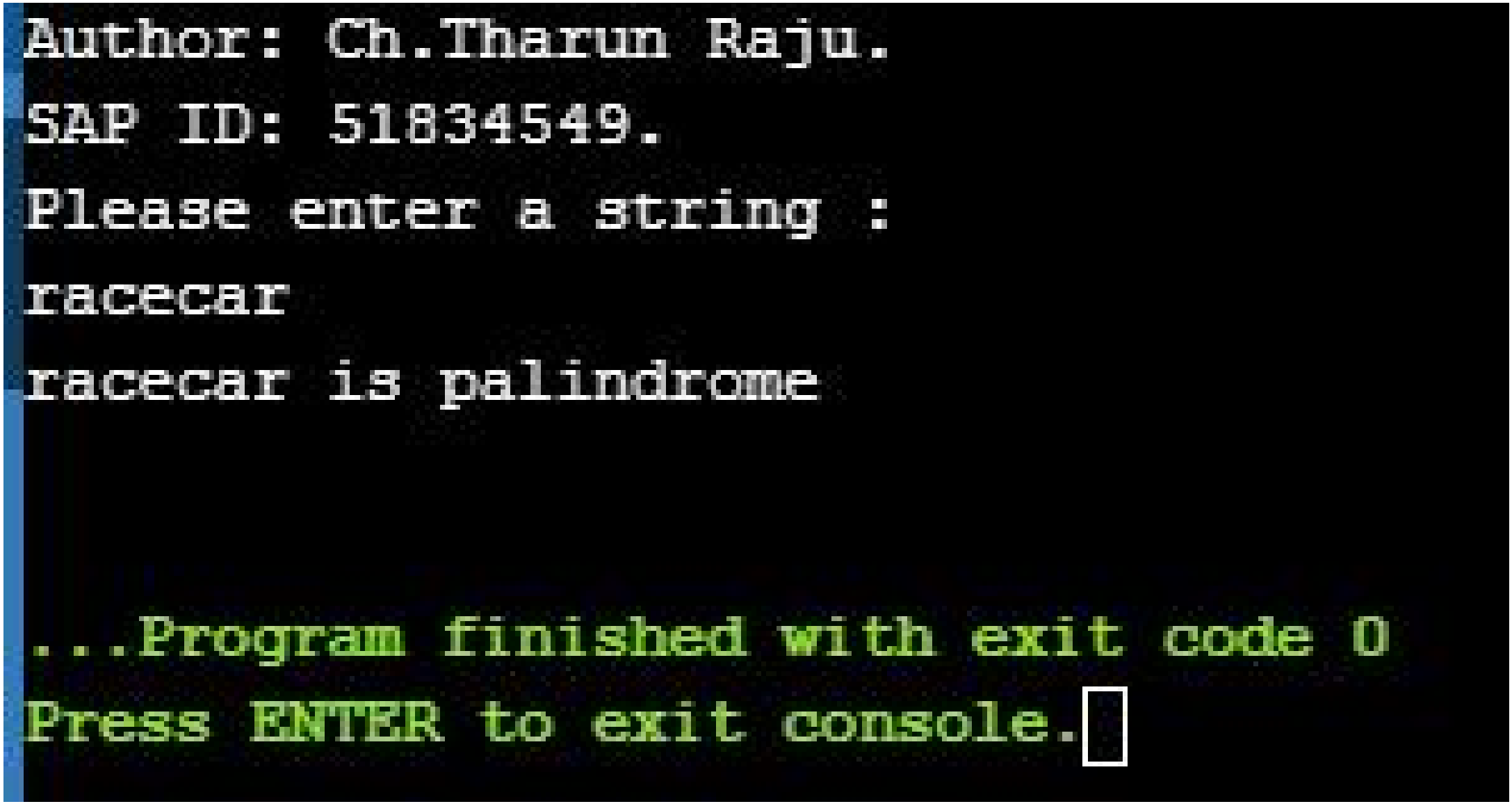
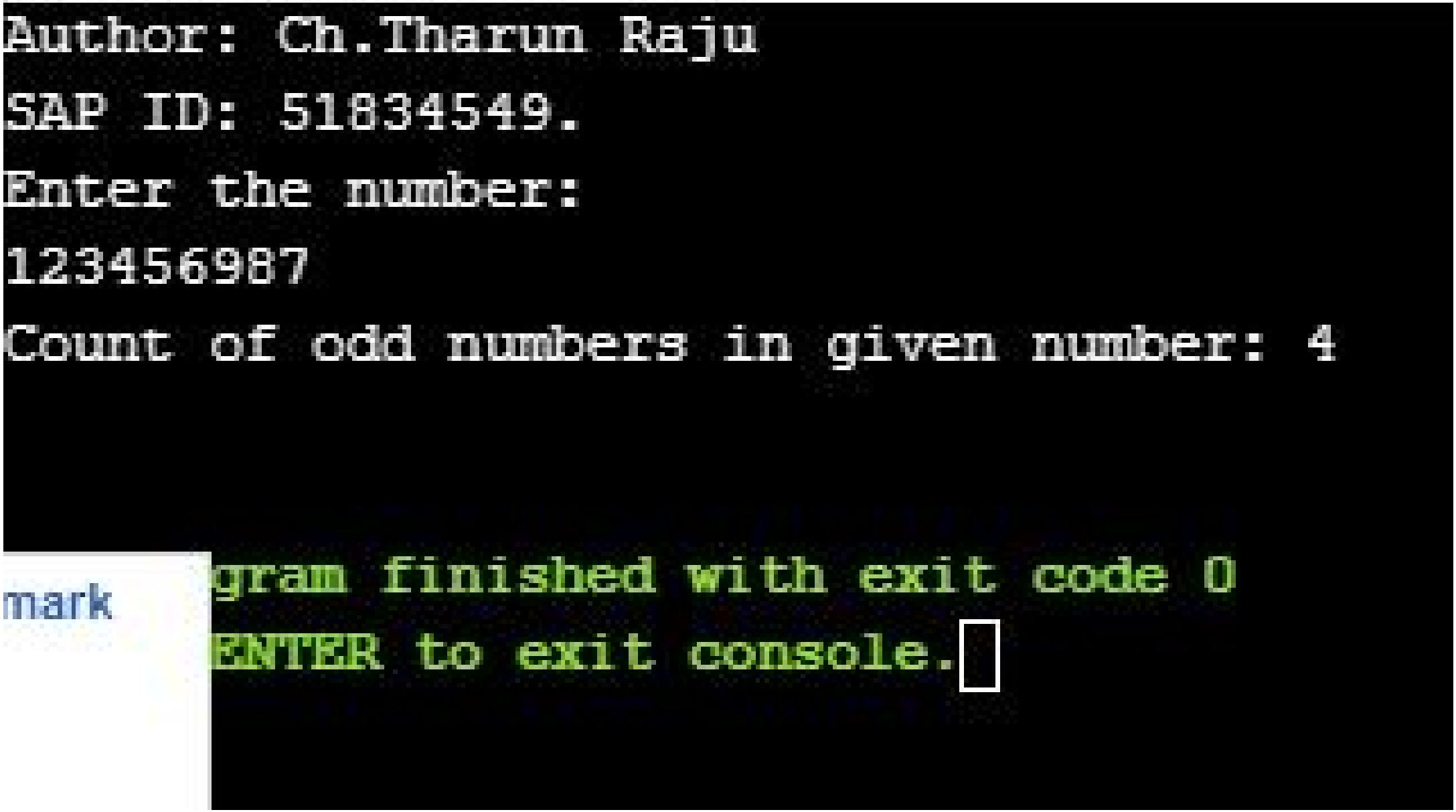
```java
import java.util.Scanner;
public class Main
{
    // to check if string is palindrome using recursion
    public static boolean checkPalindrome(String str)
    {
        if(str.length() == 0 || str.length() == 1)
            return true;
        if(str.charAt(0) == str.charAt(str.length() - 1))
            return checkPalindrome(str.substring(1, str.length() - 1));
        return false;
    }
    public static void main(String[]args)
    {
        Scanner reader = new Scanner(System.in);
        System.out.println("Author: Ch.Tharun Raju.\nSAP ID: 51834549.");
        System.out.println("Please enter a string : ");
        String strInput = reader.nextLine();
        if(checkPalindrome(strInput))
        {
            System.out.println(strInput + " is palindrome");
        }
        else
        {
            System.out.println(strInput + " not a palindrome");
        }
        reader.close();
    }
}
```


Author: Ch.Tharun Raju.
SAP ID: 51834549.
Please enter a string :
racecar
racecar is palindrome
...Program finished with exit code 0
Press ENTER to exit console.

```java
import java.util.Scanner;
class Main{
    public static void main(String[] args){
        Scanner reader = new Scanner(System.in);
        System.out.println("Author: Ch.Tharun Raju\nSAP ID: 51834549.");
        System.out.println("Enter the number: ");
        int num = reader.nextInt();
        countOdd(num);
    }
    public static void countOdd(int n){
        int digit, c=0;
        int temp=n;
        while(n>0){
            digit=n%10;
            n = n/10;
            if(digit==0||digit==1){
                continue;
            }
            if(digit%2!=0){
                c++;
            }
        }
        System.out.println("Count of odd numbers in given number: "+c);
    }
}
```


Author: Ch.Tharun Raju
SAP ID: 51834549.
Enter the number:
123456987
Count of odd numbers in given number: 4
gram finished with exit code 0
ENTER to exit console.
mark

```java
public class Main{
    public static void main(String[] args){
    System.out.println("Author: Ch.Tharun Raju\nSAP ID: 51834549");
    System.out.println("Enter the number of rows: ");
    int rows = 5;
    for (int i = 1; i <= rows; i++) { for (int j = i; j >= 1; j--){
     System.out.print(j);
    }
  System.out.println();
    }
  }
}
```

```
Author: Ch.Tharun Raju
SAP ID: 51834549
Enter the number of rows:
1
21
321
4321
54321


...Program finished with exit code 0
Press ENTER to exit console.
```

```java
public class Main {
   public static void main(String []args) {
    String str[] = { "Tharun", "Raj", "Likith", "Prabhakar", "Panther"};
    String temp;
    System.out.println("Author: Ch.Tharun Raju\nSAP ID: 51834549.");
    System.out.println("Strings in sorted order:");
    for (int j = 0; j < str.length; j++) {
       for (int i = j + 1; i < str.length; i++) {
        // comparing adjacent strings
        if (str[i].compareTo(str[j]) < 0) {
            temp = str[j];
            str[j] = str[i];
            str[i] = temp;
        }
       }
       System.out.println(str[j]);
    }
   }
}
```

```
Author: Ch.Tharun Raju
SAP ID: 51834549.
Strings in sorted order:
Likith
Panther
Prabhakar
Raj
Tharun


...Program finished with exit code 0
Press ENTER to exit console.
```