Exp-no: 11 Demonstrate the working of Junit to reverse a word and using assert statement for pool of value.

Aim: To working of Junit assert statements by comparing the reversed value with expected one

Program:

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;
class saiRethaTest {
    public static void main (String[] args)
{
    String str;
    char ch;
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter a string:");
    str = sc.nextLine();
    System.out.println("Reverse of string:");
    for (int j= str.length(); j>0; --j)
{
    System.out.print (str.charAt(j-1));
assertEquals("mani", str);
    }
    assertEquals("mani", str);
}
}
```

output: input actual output

mani inam

Test cases:

Test case no : 1

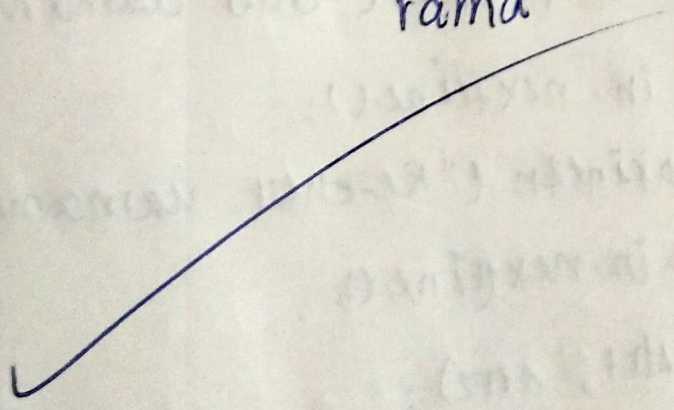
Test case name: Expected one same as actual one.

Input: mani	Expected output: imam	Actual output: inam	Remarks: SUCCESS

Test case no: 2

Test case name: Expected one same as actual one

Input: amar	Expected output: rama	Actual output: rama	Remarks: SUCCESS



EXP NO: 12 Write a white box testing code to string comparison of word and using assert statement for proof the value:

Aim: To understand the working of Junit assert statements by comparing two strings.

Program:

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;
public class third {
    public static void main (String[] args)
{
    Scanner in = new Scanner (System.in);
        System.out.println("enter username:");
    String str1 = in.nextLine();
    System.out.println("Re-enter username:");
    String str2 = in.nextLine();
    assertEquals (str1, str2);
        }
}
```

output:

Enter username:
Ame

Re Enter username:
Ame

Expected output	Actual output	Result
Ame	Ame	success

Exp no: 13 Write a junit code for voting system and user assert statement and verify for testing.

Aim: To understand the working of Junit True statements by checking the voting age.

Program;

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class jour {
    public static void main (String[] args)
{
    int age, shrt;
    Scanner scan = new Scanner (System.in);
    System.out.println ("Please enter your age:");
    age = scan.nextInt();
    if (age >18) {
        System.out.println ("Welcome to voting system
                            You can vote");
    }
    else {
        shrt = (18 - age);
    System.out.println ("Sorry, you can vote after:
                        " + shrt + "years");
    assertTrue (age == shrt);
}}}
```

Output: Enter your age 19
Welcome to voting system you can vote.

Please Enter your age: 15
Sorry, you can vote after 3 years

Exp.no: 14 Write a program to calculate simple interest.

Aim: To write program to calculate simple interest based on percentage rate condition.

Program:

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class interest {
    public static void main (String[] args)
    {
        Scanner sc = new Scanner (System.in);
        float P = sc.nextFloat();
        float R = sc.nextFloat();
        float T = sc.nextFloat();
        float ST = (P*T*R) /100;
        System.out.println ("simple Interest = "+SI);
        assertTrue ( 3600==SI);
    }
}
```

output:

```
600
600
simple Interest = 3600.0

600
60
3
simple Interest = 1080.0
```

Exp-no: 15 check whether the given number is palindrome or not and output values should verify white box testing.

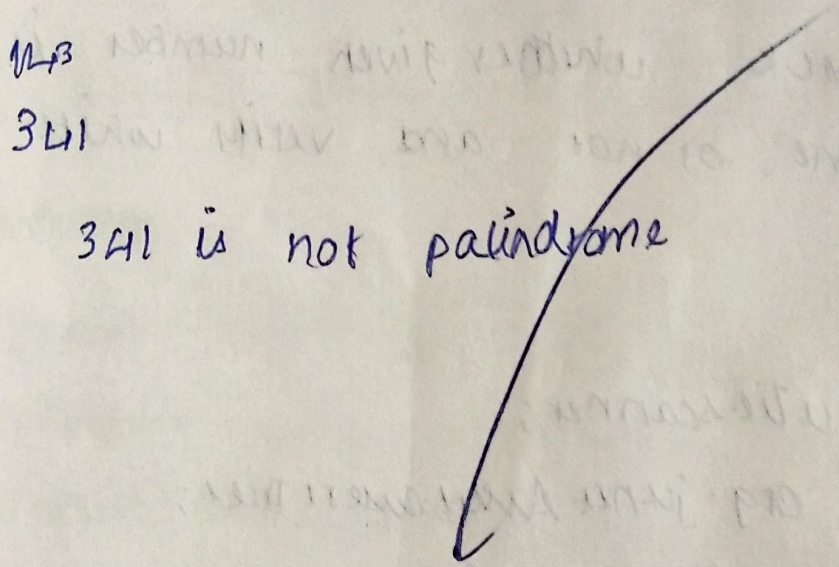
Aim: To check whether given number is palindrome or not and verify white box testing

program:

```
import java.util.Scanner;
import static org.junit.Assert.assertTrue;
public class palindrome {
    public static void main (String[] args)
    {
        Scanner in = new Scanner (System.in);
        int r, sum = 0, temp ; int n= in.nextInt();
        temp =n;
        while (n>0) {
            r=n%10 ; n=n/10;
            sum = (sum *10) +r;
        }
        System.out.println(sum);
        assertTrue (787 == sum);
        if (temp == sum)
            System.out.println (sum+" is
                palindrome");
        else {
            System.out.println (sum+" is
                not palindrome");
        }
    }
```

787

787 is palindrome!



341

341 is not palindrome