Exp No: 11

Demonstrate the working of Junit to reverse a word and assert statement for the Proof of the value

Aim: To Understand the working of Junit assert statement by Comparing the reversed value with expect one.

Procedure:

Step1: Install Eclipse software Select the Package different libraries.

Step2: Open Eclipse click Launch installer to Run.

Step3: Create a new file (Project)

Step4: choose a workspace where your Project is to be stored.

Step5: Install Plugging for testing

Step6: Relevant Plugging

Step7: implement and Run Junit Execution.

Program :

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;

class Saveetha Test.
{
  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 a string" + str + "is:");
For (int j = str.length(); j >= 0; --j)
{
  System.out.Print (str.charAt(j-1));
  assertEqual ("mani", str);
  }
  assertEqual ("mani", str);
}
}
```

Output : Input — Actual output

Lavan — naval

Test Case : Expected one same as actual one

Input = Lavan — Expected output — Actual op

naval — naval

EXERCISE: 12

Write a White Box testing code (JUnit) 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 the user name");
String str1 = in.nextLine();
System.out.Println("Reenter the user name");
String str2 = in.nextLine()
assertEquals(str1, str2);
}
}
```

Exp No: 13 Write a junit code for voting system and users assert statement and verify the white Box testing. (15)

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 fun
{
public static void main (String[] args)
{
int age, shet;
Scanner scan = new Scanner (System.in);
System.out.println ("Please enter you age");
age = scan.nextInt ();
if (age >= 18)
{
System.out.Print ("welcome to voting system
                   You can vote")
}
else
{
  shet = (18 - age);
System.out.println ("sorry, You can vote
                   after :" + shet + "years");
assertTrue (case == shet);
}}}
```

EXP NO: 14

Write a Program using function to Calculate Simple interest. Suppose the customer is a Senior citizen. He is being offered 12 Percent rate of interest. for all other Customer, the ROI is 10 Percent. the output value should verify using white box testing.

Aim: Write a Program that Calculate the simple interest based on the Percentage rate condition and verify the result using assert True code.

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 SI = (P*T*R)/100;
        System.out.println("Simple interest=" +SI);
        assertTrue (3600 = SI);
    }
```

EXP NO:15 check whether the given number is Palindrome or not and verify the output values should verify the output values should verify using White box testing.

Aim: To check whether the given number is Palindrome or not and verify the result using white assert True code.

Program:

```
Import Java.util.scanner.
import static org.junit.Assert.assertTrue;
Public class Palindrome.
{
    Public static void main (String arg[])
{
    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 Print in (sum);
    assert True (c+8 7== sum);
    If (temp == sum)
        System.out.Print ln (sum+" is Palindrome
                                number")
    else
        System out Print ln (sum+" is not Palindrome");
    }
}.
```