EXP NO: 11

Demonstrate the working of Junit to reverse a work and using assert statement for Proof of the value.

Aim: To understand the working of Junit assert statement by comparing the reversed value with expected one.

```
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.println ("Reverse of a string "+str+"
                                                    is :");
        for (int j = str.length (); j>0; --j)
        {
            System.out.print (str.char At (j-1);
            assert Equals ("mani", str );
        }
        assertEquals ("mani", str);
    }
}
```

Output:-

Input	Actual output
mani	inam

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.

```
Import static org . junit . Assert . assert Equals ;
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 . next . line ( );
    System . out .
    assert Equal (str1, str2);
}
}
```

write a Junit Code for Voting System and uses
assert Statement and verify the white testing

AIM :-

To understand the working of Junit
True Statements by Checking the voting age.

Import Static org.junit.Assert.assertTrue;

import java.util.Scanner;

class four

{

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.PrintIn(" welcome to voting System
                                    yo.Can vote");

}

else

{

Shrt=(18-age);

System.out. PrintIn ("Sorry, you can vote after:
                             "+ shrt +"years");

assert true(age == shrt);

}}}

write a program using function to Calculate the Simple interest, Suppose the customer is a Senior Citizen. He is being offered 12 percent rate of interest, for all other Customers, the ROI is 10, Percent. The output value should be 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

Import Static Void main (String [] args)
Import Java.util. Scanner,

Class interest

Public Static Void main (String [] args)
{
    Scanner Sc = new Scanner (System.in);
    float P = Sc. next float ();
    float R = Sc. next float ();
    float T = Sc. next float ();
    float SI = (P * T * R)/100;
    System. out. Print ln ("Simple interest ="+SI)
    assert True (3600 = si);
}

Check wheather the given number is palindrome or not and veriby the output value should be veriby using white base testing.

AIM:-
To Check wheather the given number is Palindrome or not and veriby the result using assert True Code.

```
import java.util.Scanner;
import static org.junit.Assert.assertTrue;
Public class palindrome
{
    Public static world 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. print ln(sum);
        assert True (787 == sum);
        if (temp == sum)
            System.out println (sum +". is
                            Palindrome number");
        else
            System.out println (sum+ " is not
                            Palindrome number");
    }
}
```