EXP NO:11

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

AIM:-

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

```
import static void main(string [] args)
class saveethaTest
  {
    public static void main(string[] args)
  {
    string str;
     char ch;
     Scanner sc = newScanner(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));
    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	Expected output	Actual output	Remarks
mani	inam	inam	SUCESS

EXP No : 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.

```
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 username");
   string str1= in.nextLine();
   system.out.println ("Reenter the username");
   string str2= in.nextLine();
   assertEquals(str1, str2);
        }
}
```

EXP NO: 13

Write a junit code for voting system and uses assert statement, verify the white box 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, short;
Scanner scan = newScanner(system.in);
system.out.println("please enter your age");
age = scan.nextInt();
if(age >= 18)
{
System.out.println("Welcome to voting
                        System");
}
else
{
  short = (18 - age);
system.out.println("Sorry, you can vote
                after:" + short + "years");
assertTrue(age == short);
}}}
```

EXP NO : 14

Write a program using Function to calculate the simple interest. Suppose the customer is a Senior citizen. He is offered 12 percent rate of interest; for all other customers, the ROI is 10 percent. The output values should verify using white box testing.

AIM:-

Write a program that calculates the simple interest based on the percentage rate conditions and verify the result using assertTrue code.

```
import static org.junit.Assert.assertTrue;
import java.util.scanner;
{
    public static void main(string[]args)
    {
        scanner sc =newScanner(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 using white box testing.

AIM:- To check whether the given number is palindrome or not and verify the result using assertTrue Code.

```
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(" is palindrome");
       else
            system.out.println("Not palindrome");
}    }
```

EXP NO:16

Write a program to convert decimal number equivalent to Binary numbers and octal numbers? The output values should verify using White box testing?

AIM:- To convert Decimal number to its equivalent binary number and octal number and the output values verified using Assert code.

```
Import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class binary
{
  public static void main(string[]args)
   { scanner in = new Scanner(system.in);
    // decimal number
    int decimal = in.nextInt();
    // convert decimal to binary
    string binary = Integer.toBinary
                   string(decimal);

    system.out.println("BINARY is"+
                        binary);

    // convert decimal to octal
system. out. print (" OCTAL is ");
System. out. println( Integer .toOctalstring
                         (decimal));
 // assertEqual ("1100", binary);
 assertTrue( 14 == decimal);

 }
}.
```