EXP. NO:11

Demonstrate working of junit to reverse a word and
using assert statement for proof of value.

AIM: To understand working of Junit assert
statement by comparing reversed value.

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;
class Saveetha Test
{
    public static void main(String [] args)
    {
        string str;
        Scanner sc =new Scanner (system.in);
        System.out.print(" Enter a string");
        for ( int j =str.length() ; j>0;--j)
        {
            System.out.print(str.charAt(j-i);
            assertEquals("mani", str);
        }
        assert Equals("mani", str);
    }
}
```

Output:

Input   Actual output

mani   inam

Exp No: 12

Write white box testing code to string comparison of words and using assert for proof the value.

AIM: To understand 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 user name");
    String str1 = in.nextline ();
    System.out.println ("Re enter user name");
    String str2 = in.nextline ();
    assertEquals (str1, str2);
    }
}
```

enter user name
Ame.
Re enter user name
Ame

EXP NO:13

Write junit code for voting system and uses
assert statement and verify

AIM: To understand the working of junit True
Statement and verify white box testing.

```
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 age");
age = scan.nextline ();
if ( age >= 18 )
{
System. out. println ("welcome voting system you can vote");
else
{
outz(18 - age );
System. out println ("Sorry you are not eligible");
assert True ( age == shrt );
}
}
}.
```

Output:
       enter your age
       19
       welcome to voting System you can vote

EXP No:14.

Write program using function to calculate simple interest.

Aim: Write a program that calculate simple interest based on percentage rate.

```java
import static org.junit.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 ();
        System.out.println("simple interest = "+SI);
        assert True (3600 ==SI);
    }
}
```

Output:

600
1

Simple interest = 3600.0

Exp: 15

Check whether 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.

```
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.nextline();
        temp = n;
        while (n>0)
        {
            r=n%10, n=n/10;
            sum = (sum*10)+r;
        }
        System.out.println(sum);
        assertTrue(787=sum);
        if
        System.out.println(num+ "is palindrome")
        else
            System.out.println("not palindrome");
    }
}
```

output:
787
787 is palindrome number