Exp No:11. Demonstrate the working of J-unit to reverse a word and using assert statement for proof of the value.

Algorithm:

```
Import static org.junit.Assert.assertEquals;
import java.util.Scanner
class saveatha tar
{
    public static void (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.println( str.charAt(j-1));
            assert Equals ("main:", str)
        }
        assert Equals ["main", str);
    }
}
```

output:

Input	Actual output
main:	main

Exp No: 12.

Write a white box testing code (Junit) for string comparison of word and using assert statement for proof the value.

Code:

```
import java.util.Scanner;
public class Nerdl.
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.println ("Reenter the Username");
    string str2 = in.next line();
    assert.Equal (str1, str2);
    }
}
```

output:

input = Expected output = Same Actual output = Same

Remarks = Successful.

Exp No: 13.

Write a Junit code for voting system and use assert statement and verify the white box testing

code:

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class four
{
  public static void main (String[] args)
{
  int age,shrt;
    Scanner sc= new Scanner (System.in);
    System.out.print(" please enter your age");
    age = scan.nextInt();
    if (age>=18)
    {
        system.out.print("welcome to Voting syst
                          u can vote");
    }
    else
    {
          shrt=(18-age);
        system.out.print("sorry, you can vote after:
                          "+shrt+"years");
        assert true (age==shrt);
    }
}
}
```

output:

input = 19.

Expected output : You can vote Actual output.

Remarks = Successful.

Exp No:14.

write a program that calculates the simple interest based on the percentage test conditions and verify the results.

code:

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
{
    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);
    }
}
```

output:

Input: 600 Expected output : 3600.0 Actual output: 3600.0
600
6

Remarks: Successful.

Exp No: 15.

To check whether the give number is palindrome or not.

code:

```
import java.util.Scanner;
Public class palendrome
{
    public static void main (String args[])
    {
    Scanner sc=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);
    assert true (787==sum);
     if(temp==sum)
    {
     System.out.println(sum+" is palindrome number");
    }
    else
    {
      System.out.println(sum+" is not palindrome number");
    }
}
```

output:

Input: 787 Expected output: 787 is a palindrome.

Remarks: Successful