Ex:- 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 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. next line ();
     System. out. println ("Reverse of a string "+str+"' is:");
     for (int j= str. Length();j>0; --j)
 {
     System . out. print (str.charAt (j-1));
   assert Equals ("mani", str);
         }
       assert Equals ("mani", str);
   }
 }
```

Output

Input	Actual output
mani	inam

Test cases :

Test case no : 1

Test case name : Expected one Same as actual one

Input = mani	Expected output	Actual output	Remarks
	inam	inam	Success

Test case no: 2

Test case name : Expected one Same as actual one

Input = Aman	Expected output	Actual output	Remarks
	rana	r	FAILURE

Ex: 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 user name");
      string str1 = in.nextline ();
   system.out.println ("Reenter the user name");
   string str2 = in.next.line ();
   assert Equals (str1, str2);
      }
 }
```

Exp-13

Write a junit code for voting system and uses assert statement and verify the white box testing.

Aim: To understand the working of Junit True statements checking the voting age.

```
Import static org.junit.Assert.assertTrue;
Import Java.util Scanner;
  class fan
 {
  public static valid main (string[]args)
  {
  int age, shrt;
 Scanner scan = new Scanner (system.in);
 System.out.pointIn ("please enter your age");
  age = scan.nextInt();
 if (age >=18)
 {
 System.out.pointIn ("welcome to voting system Yo can vote");
  }
 else
 {
         shrt = (18-age)
 System.out.pointIn ("Sorry, You can vote after:"+ shrt+"years");
 assert True (age==shrt);
 }}}
```

Exp-14

Write a program using function to calculate the simple interset. Suppose the customers is a senior citizen. He is being afferend 12 percent rate of intenent; 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 sinple interset based on the percentage rate conditions and veritty the result using assert True code.

```
Import static.org.junit.Assert.assertTrue;
Import Java.util.scanner;
class intrest
{
    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 interset(=)"+SI);
      assert True (3600==SI);
    }
}
```

Exp-15

Check the 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 assert True code.

```
Import Java.util.Scanner
Import static org.junit Assert.assert True;
public class palindrome
{
 public static void main (string args[])
 {
  Scanner in = new scanner (system.in)
  intr, sum =0, temp ; int n = int.next();
  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");
  }
}
```

Exp-16

Write a program to convert Decimal number equivalent to Binary number and octal numbers? the output value should verify using white box testing?

Aim: To convert the decimal number to its equivalent binary number and octal number and the output values verified useing Assert code.

```
Import static org.junit.Assert assert true;
Import Java.util scanner;
class binary
{ public static void main (string [] args)
  { scanner in = new Scanner (systen.in); )
    # int decimal = in.nextInt ();
   string brinary = Integer.toBinary string (decimal);
   system.out.println ("BINARY IS"+ binary);
   system.out.print ("OCTAL IS");
   system.out.println (Integer.toOctal string (decimal));
    assert True (in == decimal);
   }
}
```