

## Experiment - 11

Demonstrate the working of Junit to reverse a word 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 SaneethaTest
```

```
{
```

```
    public static void main(String[] args)
```

```
{
```

```
    String str;
```

```
    char ch;
```

```
    Scanner sc = new Scanner(System.in);
```

```
    System.out.print("Enter a string:");
```

```
    str = sc.nextLine();
```

```
    System.out.print("Reverse of a string " + str + " is:");
```

```
    for (int i = str.length(); i > 0; --i)
```

```
{
```

```
    System.out.print(str.charAt(i - 1));
```

```
    assertEquals("mani", str);
```

```
}
```

```
    assertEquals("mani", str);
```

```
}
```

```
}
```

Output

=====

Input

mani

Actual Input

inam.

## Black Box Testing

B2

Test Cases

Test case no. 1

Test case name: Expected one same as actual one.

<u>Input</u> = mani	<u>Expected output</u> in am	<u>Actual output</u> in am	<u>Remarks</u> Success.
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Test case - 2

Test case name: Expected one same as actual one.

<u>Input</u> = Amar	<u>Expected output</u> rama	<u>Actual output</u> r	<u>Remarks</u> FAILURE.
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Experiment - 12)

write a white box testing code to string comparison  
of word and using assert statement for print value.

Aim: To understand the working of junit assert  
statement by comparing two strings.

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 user name");  
 String str2 = in.nextLine();  
 assertEquals(str1, str2);

}

✓

## Experiment-13

write a junit code for voting system and use assert system and verify the white box testing.

Aim To understand the working of junit true statements by checking the voting age.

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;
class Four {
    public static void main(String[] args) {
        int age, short;
        Scanner scan = new Scanner(System.in);
        System.out.println("Please enter your age");
        age = scan.nextInt();
        if (age >= 18) {
            System.out.println("Welcome to voting system. You can vote");
        } else {
            short = (18 - age);
            System.out.println("Sorry, you can vote after " + short
                + " years");
        }
        assertEquals(age == short);
    }
}
```

Experiment - 14t

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.

Aim:- write a program that calculates the simple interest based on the percentage rate conditions and verify the results.

```
import static org.junit.Assert.assertEquals;
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();
        float SI = (P * T * R) / 100;
        System.out.println("Simple Interest = " + SI);
        assertEquals(3600, SI);
    }
}
```

## Experiment - 18

A Check whether the given number is Palindrome or not  
and verify the output values.

Aim: To check whether the given number is Palindrome or not and verify the result

```
import java.util.Scanner;  
import static org.junit.Assert.assertEquals;
```

```
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 ("sym + " + "is Palindrome number");
```

```
else
```

```
System.out.println ("sym + " + "is not Palindrome number");
```

```
}
```

```
.
```

Experiment - 16

write a program to convert Decimal number equivalent to Binary number and octal number?

Q) To convert the decimal number to its equivalent binary number and octal number and the output values.

```
import static org.junit.Assert.assertEquals;
import java.util.Scanner;
class binary
```

```
{ public static void main(String[] args)
{
    Scanner in = new Scanner(System.in);
    int decimal = in.nextInt();
    String binary = Integer.toBinaryString(decimal);
    System.out.println("Binary is " + binary);
    System.out.print("OCTAL is ");
    System.out.println(Integer.toOctalString(decimal));
    assertEquals(14 == decimal);
}
```

Experiment - 17

Write a Java Program to convert a given no of days in terms of years, weeks & days.

Aim

import static org.junit.Assert.assertTrue;  
import java.util.Scanner;  
public class year

{  
 public static void main (String args[])

{

int m, year, weekly day;

Scanner s = new Scanner (System.in);

System.out.print ("Enter the no. of days");

m = s.nextInt();

year = m / 365;

assert true (z == year);

m = m % 365;

System.out.println ("no. of years: " + year);

week = m / 7;

System.out.println ("no. of days: " + day);

y

3.

Experiment - 18

Find the factorial of n? The output values should verify using white box testing.

```
Aim: import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class factorial
{
    public static void main (String [ ] args)
    {
        int i, j, pr = 1;
        try
        {
            Scanner s = new Scanner (System.in);
            System.out.println ("Enter the no. to find factorial");
            int n = s.nextInt ();
            if (n < 0)
                System.out.println ("Invalid");
            else if (n == 0)
                System.out.println ("1");
            else
                pr = 1;
                for (j = 1; j <= n; j++)
                    pr = pr * j;
                System.out.println (pr);
        }
        catch (Exception e)
        {
            System.out.println ("Invalid");
        }
    }
}
```

## Experiment - 19

find the year of the given date is leap year or not.

Aim: To find the year of the given date is leap year or not and verify the results.

```
import static org.junit.Assert.assertTrue;
import java.util.Scanner;
class leap year
{
    public static void main(String[] args)
    {
        int i=0;
        System.out.println("Enter the date/month/year");
        Scanner s=new Scanner(System.in);
        String re=s.nextLine();
        String[] r=re.split("/");
        int x=Integer.parseInt(r[2]);
        if(x%4==0)
        {
            System.out.println("It is an leap year");
        }
        else
        {
            System.out.println("It is not a leap year.");
        }
    }
}
```

## Experiment - 201

Write a program to find the square, cube of the given decimal number.

Aim: To write a program to find the square, cube of given decimal number.

```
import static org.junit.Assert.assertEquals;
```

```
import java.util.Scanner;
```

```
public class CubeSquare
```

```
{
```

```
    public static void main(String[] args)
```

```
{
```

```
    try
```

```
{
```

```
        Scanner s = new Scanner(System.in);
```

```
        System.out.println("Enter a number");
```

```
        double n = s.nextDouble();
```

```
        double a = 0;
```

```
        b = 0;
```

```
        a = n * n;
```

```
        b = n * n * n;
```

```
        System.out.println("The square of number = " + a);
```

```
        System.out.println("The cube of number = " + b);
```

```
}
```

```
    catch (Exception e)
```

```
{
```

```
        System.out.println("Invalid");
```

```
}
```

```
}
```

```
    assertEquals(expectedOutput == a);
```

```
    assertEquals(expectedOutput == b));
```

```
}
```

## Experiment - 2

write a selenium program for automation and open a chrome browser with google.com.

Aim To write a selenium program to automate the process of opening a chrome browser.

The specific requirements for this program are as follows.

Selenium Automation The program should utilize the selenium framework to automate browser interaction.

### Open chrome browser

The program should initiate and open a chrome instance. It should utilize the webdriver component of selenium to establish a connection with the browser.

Navigate to "google.com" The program should instruct the chrome browser to navigate to the website "google.com". It should utilize the webdriver commands to perform this action.

Verifications The program should ensure that the browser successfully opens and navigates to "google.com" without any errors.

## Program

Package one;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class chrome

{

    public static void main (String [] args),

{

        System.out.println ("hai");

        System.setProperty ("webdriver.chrome.driver",

            webdriver driver = new ChromeDriver ()

            driver.manage ().window ().maximize ();

            driver.get ("https://www.google.com/");

}

}

## Experiment-22

Write a Program for automation and open a mozilla browser with google.com.

```
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.firefox.FirefoxDriver;  
public class seleniumExample
```

```
{  
    public static void main (String [] args)
```

```
{  
    System.setProperty ("webdriver.geckodriver",  
        "/Path/to/geckodriver")
```

```
    WebDriver driver = new FirefoxDriver()
```

```
    driver.get ("http://www.google.com")
```

```
    driver.quit();
```

```
}
```

```
.
```

Experiment - 23

== == == ==  
Selenium Program to automate login ARMS Portal  
with the help of chrome browser.

```
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.WebElement;  
import org.openqa.selenium.ChromeDriver;  
  
public class LoginPage  
{  
    public class LoginPage  
    {  
        public static void main(String[] args)  
        {  
            System.out.println("hai");  
            System.setProperty("webdriver.chrome.driver", "C:\\ selenium\\chromedriver\\chromedriver.exe");  
            WebDriver driver = new ChromeDriver();  
            driver.manage().window().maximize();  
            System.out.println(username);  
            WebElement passLogin = driver.findElement(By.name("btlogin"));  
            System.out.println(login);  
            username.sendKeys("XXXXX");  
            Password.sendKeys("XXXXXX");  
            login.click();  
        }  
    }  
}
```

Experiment - 24 r

(Electromagnetic)

Selenium Program Automate login in Github portal  
with the help of chrome browser

```
import org.openqa.selenium.WebDriver;
```

```
import org.openqa.selenium.chrome.ChromeDriver;
```

```
public class seleniumExample {
```

```
{
```

```
    public static void main(String[] args) {
```

```
{
```

```
        System.out.setProperty("webdriver.chrome.driver",
```

```
        WebDriver driver = new ChromeDriver();
```

```
        driver.get("https://github.com");
```

```
        driver.quit();
```

```
}
```

```
}
```

Experiment - 25

== == ==

Write a selenium program to automate login in swiggy portal with the help of chrome browser.

Package Obj;

```
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.WebElement;  
import org.openqa.selenium.chrome.ChromeDriver;
```

public class LoginPage

{

public static void main (String s[])

{

```
    WebDriver driver = new ChromeDriver();  
    System.setProperty("webdriver.chrome.driver",
```

```
    WebElement testBox = driver.findElement
```

```
    driver.manage().window().maximize();
```

~~driver~~.testBox.click();

}

.

W W & Mr

C M