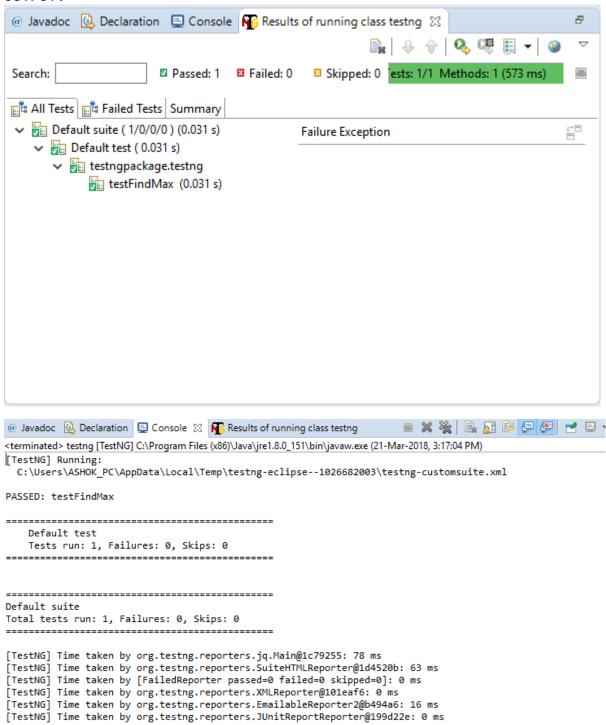
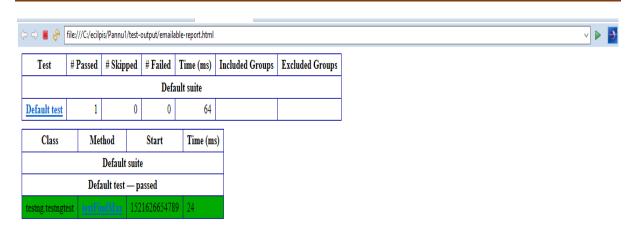
Java Program Using do while

```
package Application;
public class classwhile {
    public static int findmax(int arr[])
    {
        int i=0;
        int max=arr[0];
        do
        {
            max=arr[i];
        }while(arr[i]>max);
        return max;
    }
}
```

Testing Program using TestNG

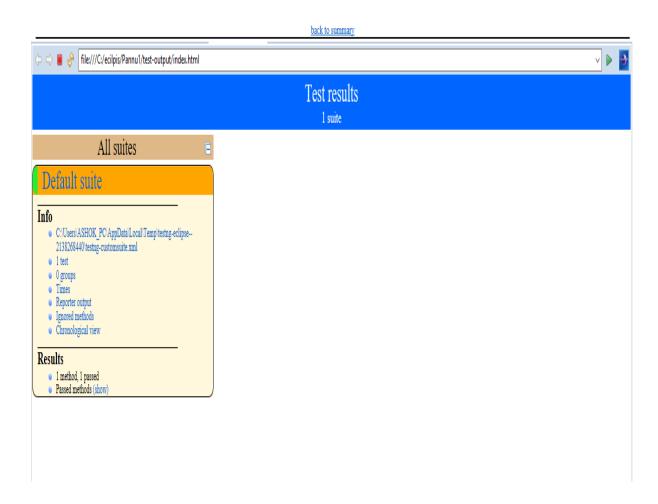
```
package testngpackage;
import org.testng.Assert;
import org.testng.annotations.*;
import application.classwhile;
public class testng {
     @Test
     public void testFindMax()
     {
          Assert.assertEquals(15,classwhile.findmax(new int[]{15,13,1,8}));
     }
}
```



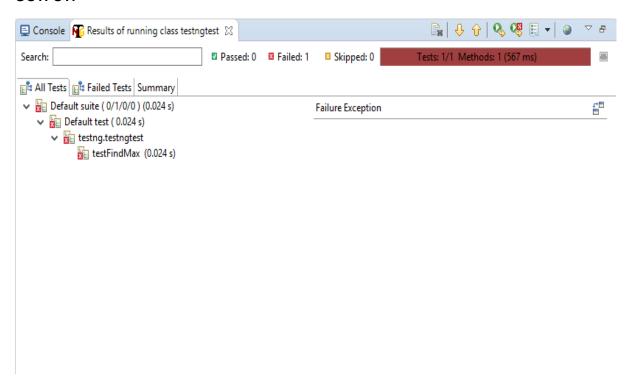


Default test

testng.testngtest#testFindMax

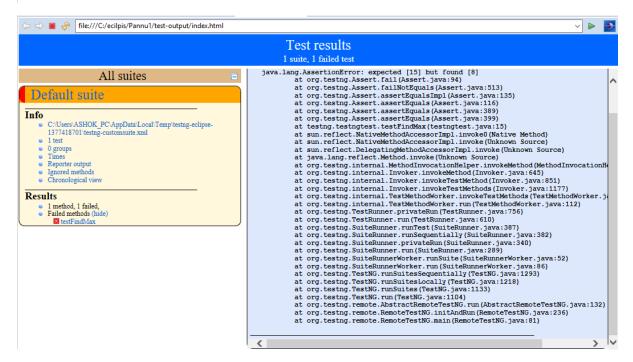


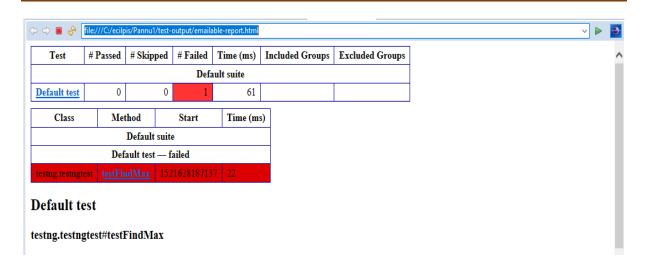
Testing Program using TestNG



```
■ Console 

Results of running class testngtest
<terminated> testingtest [TestNG] C:\Program Files (x86)\Java\jre1.8.0_151\bin\javaw.exe (21-Mar-2018, 3:59:46 PM)
FATLED: testFindMax
java.lang.AssertionError: expected [15] but found [8]
                 at org.testng.Assert.fail(<u>Assert.java:94</u>)
at org.testng.Assert.failNotEquals(<u>Assert.java:513</u>)
                 at org.testng.Assert.assertEqualsImpl(<u>Assert.java:135</u>) at org.testng.Assert.assertEquals(<u>Assert.java:116</u>)
                 at org.testng.Assert.assertEquals(<u>Assert.java:389</u>) at org.testng.Assert.assertEquals(<u>Assert.java:399</u>)
                 at testng.testngtest.testFindMax(<u>testngtest.java:15</u>)
at sun.reflect.NativeMethodAccessorImpl.invoke@(Native Method)
                 at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
at java.lang.reflect.Method.invoke(Unknown Source)
at org.testng.internal.MethodInvocationHelper.invokeMethod(MethodInvocationHelper.java:104)
                 at org.testng.internal.invoker.invokeMethod(<u>Invoker.java:645</u>)
at org.testng.internal.Invoker.invokeMethod(<u>Invoker.java:645</u>)
at org.testng.internal.Invoker.invokeTestMethod(<u>Invoker.java:815</u>)
at org.testng.internal.Invoker.invokeTestMethods(<u>Invoker.java:1177</u>)
at org.testng.internal.TestMethodWorker.invokeTestMethods(<u>TestMethodWorker.java:129</u>)
                  at org.testng.internal.TestMethodWorker.run(TestMethodWorker.java:112)
                 at org.testng.TestRunner.privateRun(TestRunner.java:756) at org.testng.TestRunner.run(TestRunner.java:610) at org.testng.SuiteRunner.runTest(SuiteRunner.java:387) at org.testng.SuiteRunner.runSequentially(SuiteRunner.java:382)
                 at org.testng.SuiteRunner.privateRun(\underline{SuiteRunner.java:340}) at org.testng.SuiteRunner.run(\underline{SuiteRunner.java:289})
                 at org.testng.SuiteRunnerWorker.runSuite(<u>SuiteRunnerWorker.java:52</u>) at org.testng.SuiteRunnerWorker.run(<u>SuiteRunnerWorker.java:86</u>)
                 at org.testing.Sultexumerworker.rum(<u>sultexumerworker.rum(sultexumerworker.awar.o</u>
at org.testing.TestNG.runSuitesSequentially(<u>TestNG.java:1218</u>)
at org.testing.TestNG.runSuites(<u>TestNG.java:1133</u>)
at org.testing.TestNG.run(<u>TestNG.java:1104</u>)
                 at org.testng.remote.AbstractRemoteTestNG.run(AbstractRemoteTestNG.java:132) at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:236)
                  at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:81)
```



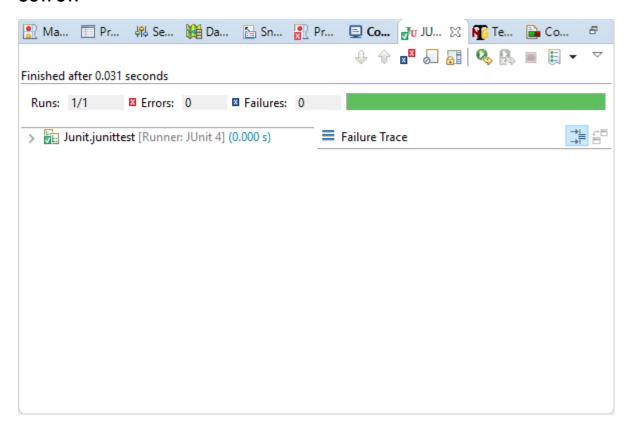


Java Program Using if else

Testing Program using JUnit

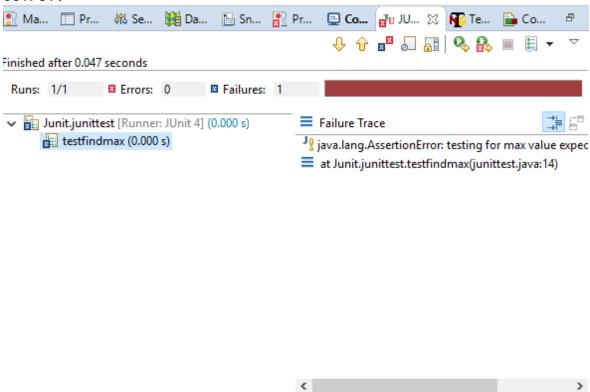
```
package Junit;
import static org.junit.Assert.*;
import org.junit.Test;
import application.classif;
public class junittest {
  @Test
  public void testfindmax()
  {
  assertEquals("testing for max value",8,classif.findmax(5, 8));
  }
```

OUTPUT:



Testing Program using JUnit

```
package Junit;
import static org.junit.Assert.*;
import org.junit.Test;
import application.classif;
public class junittest {
    @Test
    public void testfindmax()
    {
        assertEquals("testing for max value",5,classif.findmax(5, 8));
    }
}
```



Java Program Using For Loop

```
package application;
public class classfor {

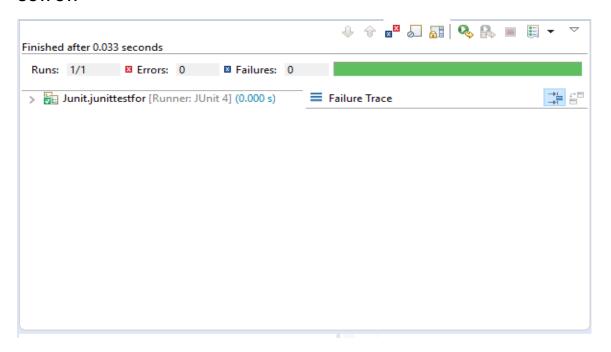
    public static int findmax(int arr[])
    {
        int max=arr[0];
        for(int i=1;i<arr.length;i++)
        {
            if(max<arr[i])
            max=arr[i];
        }
        return max;
    }
}</pre>
```

Testing program using JUnit

```
package Junit;
import static org.junit.Assert.*;
import org.junit.Test;
import application.classfor;

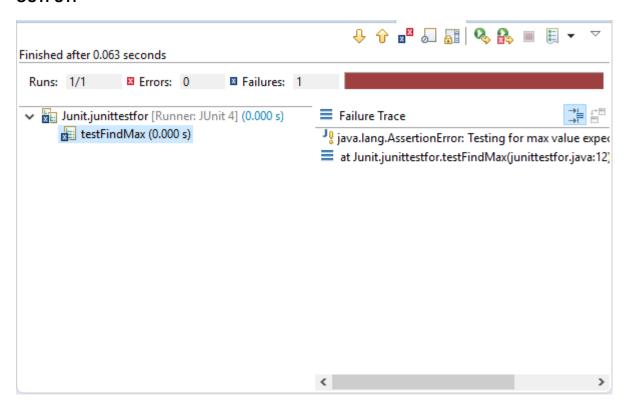
public class junittestfor {
     @Test
     public void testFindMax()
     {
          assertEquals("Testing for max value",10,classfor.findmax(new int[]{10,2,3,4}));
     }
}
```

OUTPUT:

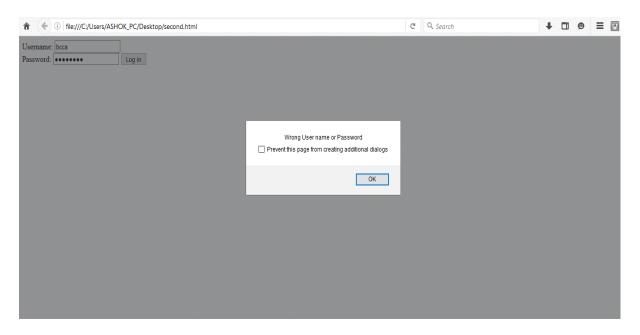


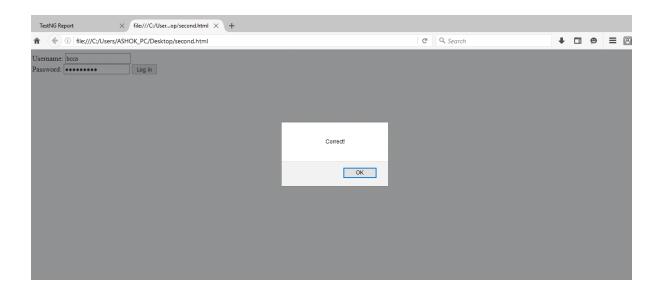
Testing program using JUnit

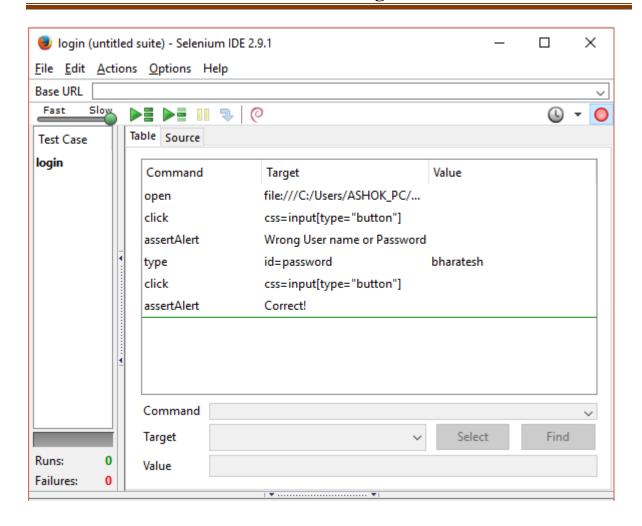
```
package Junit;
import static org.junit.Assert.*;
import org.junit.Test;
import application.classfor;
public class junittestfor {
     @Test
     public void testFindMax()
     {
        assertEquals("Testing for max value",1,classfor.findmax(new int[]{10,2,3,4}));
     }
}
```



```
<html>
<head>
<script type="text/javascript">
function isValid(){
var username= document.getElementById('uname').value;
var password = document.getElementById('password').value;
if (username=="bcca" && password == "bharatesh")
{
alert('Correct!')}
else
{
alert('Wrong User name or Password')}
}
</script>
</head>
<body>
<form name="Username_Password" action="">
Username:
<input type="text" id="uname" name="uname"><br>
Password:
<input type="password" id="password" name="password">
<input type="button" value="Log in" onclick="isValid();">
</form>
</body>
</html>
```







```
index.php
```

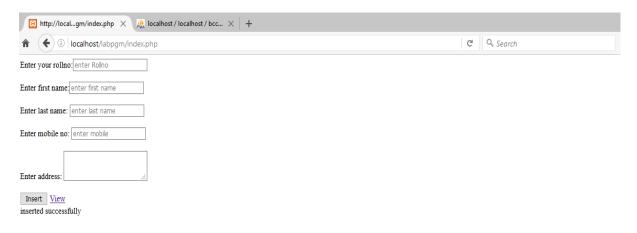
```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title></title>
  </head>
  <body>
    <form name="f1" action="" method="post">
    Enter your rollno:<input type="text" name="rollno" placeholder="enter Rollno"
required/><br/> <br/>
    Enter first name:<input type="text" name="fname" placeholder="enter first name"
required/><br/> <br/>
    Enter last name: <input type="text" name="lname" placeholder="enter last name"
required/><br/> <br/>
    Enter mobile no: <input type="text" name="mobileno" placeholder="enter mobile"
required/><br/> <br/>
    Enter address: <textarea name="address"> </textarea><br/> <br/>
    <input type="submit" name="submit1" value="Insert"/>
    <a href="select.php">View</a>
    </form>
    <?php
    if(isset($_REQUEST['submit1']))
    {
      $con=mysql connect("127.0.0.1","root","");
         mysql_select_db("bcca1",$con);
        $rollno=$_POST['rollno'];
    $fname=$_POST['fname'];
```

```
$Iname=$_POST['Iname'];
    $mobileno=$_POST['mobileno'];
    $address=$_POST['address'];
$sql="insert into tblreg values('$rollno','$fname','$lname','$mobileno','$address')";
$res=mysql_query($sql);
if($res)
{
  echo "inserted successfully";
}
else
{
 echo "Error in insertion";
}
}
?>
</body>
</html>
update.php
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title></title>
  </head>
  <body>
```

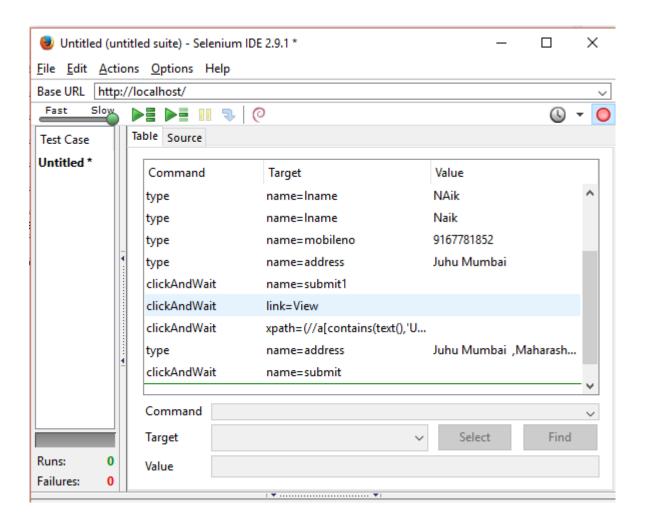
```
<?php
    $con=mysql connect("127.0.0.1","root","");
mysql_select_db("bcca1",$con);
    $a=$ GET['a'];
    $q="select * from tblreg where rollno=$a";
    $result=mysql_query($q);
    $row=mysql fetch assoc($result);
?>
    <form name="f1" action="" method="post">
    Enter your rollno:<input type="text" name="rollno" value="<?php echo $a ?>" readonly
/><br/> <br/>
    Enter first name:<input type="text" name="fname" value="<?php echo $row['fname']
?>" /><br/> <br/>
    Enter last name: <input type="text" name="lname" value="<?php echo $row['lname']
?>" /><br/> <br/>
    Enter mobile no: <input type="text" name="mobileno" value="<?php echo
$row['mobileno'] ?>" /><br/> <br/>
    Enter address: <input type="text" name="address" value="<?php echo $row['address']
?>"/><br/> <br/>
    <br/>
    <input type="submit" name="submit" value="update" />
    <?php
    $a=$ GET['a'];
    $con=mysql connect("127.0.0.1","root","");
    mysql_select_db("bcca1",$con);
    if(isset($_REQUEST['submit'])){
   $fname=$ POST['fname'];
$Iname=$ POST['Iname'];
```

```
$mobileno=$_POST['mobileno'];
$address=$_POST['address'];
$sql="update tblreg set
fname='$fname',lname='$Iname',mobileno='$mobileno',address='$address' where
rollno=$a";
$res=mysql_query($sql);
if($res>0)
{
  header('location:select.php');
 // echo "Updated successfully";
}
else
{
 echo "Error";
}
}
    ?>
    </form>
  </body>
</html>
select.php
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title></title>
  </head>
  <body>
```

```
<?php
$con=mysql connect("127.0.0.1","root","");
mysql_select_db("bcca1",$con);
echo"
 rollno
 fname
 Iname
 address
 mobileno
   ";
$sql="select * from tblreg";
$res=mysql_query($sql);
while($r=mysql_fetch_assoc($res))
{?>
 <?php echo "{$r['rollno']}" ?>
 <?php echo "{$r['fname']}" ?>
 <?php echo "{$r['Iname']}" ?>
 <?php echo "{$r['mobileno']}" ?>
 <?php echo "{$r['address']}" ?>
 <a href="update.php?a=<?php echo $r['rollno'] ?>">Update</a>
 <?php }
echo"";
?>
```



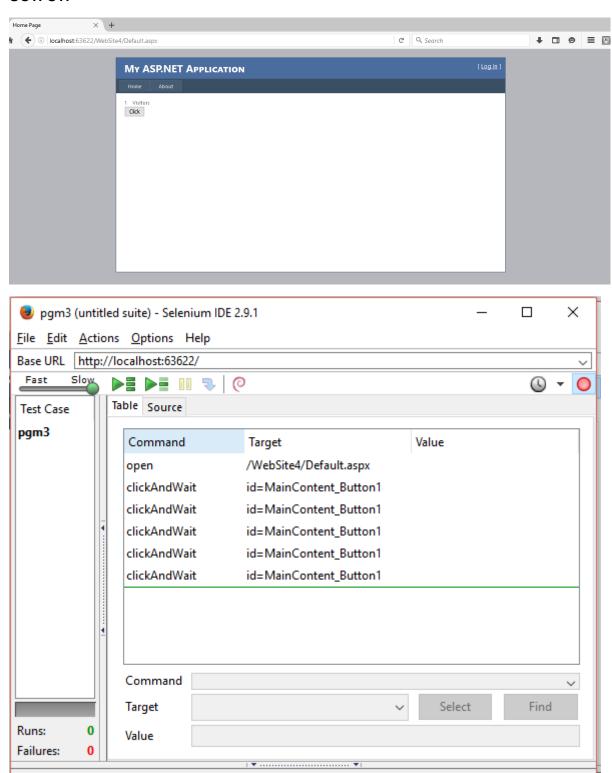




```
package Fourth;
import java.util.List;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
public class fourthpgm {
       public static void main(String[] args) {
              WebDriver driver = new FirefoxDriver();
              driver.get("http://facebook.com");
              // Put an Implicit wait,
              driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
              driver.manage().window().maximize();
              //Get count of CheckBoxes present
              java.util.List<WebElement> checkboxes =
driver.findElements(By.xpath("//input[@type='checkbox']"));
              System.out.println (checkboxes.size () +" Number of CheckBoxes");
              // Get count of Dropdown menus
              List<WebElement> dropdown = driver.findElements(By.tagName("select"));
System.out.println(dropdown.size()+" Number of DropDown Menus");
              // Get count no' of radio buttons
              List<WebElement> radioBtns =
              driver.findElements(By.xpath("//input[@type='radio']"));
                    System.out.println(radioBtns.size()+" Number of Radio Buttons");
              //Get total number of links present
                       System.out.println();
              java.util.List<WebElement> links= driver.findElements(By.tagName("a"));
              System.out.println("Total Number of links present are: "+links.size());
                  }}
```

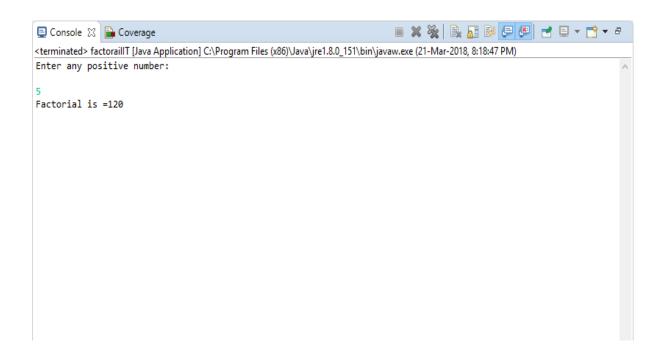
Interface: Refresh No of Visitors Visitors Imports System.Data Partial Class _ Default Inherits System.Web.UI.Page Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load Countme() Dim t As New DataSet t.ReadXml(Server.MapPath("~/counter.xml")) Label1.Text = t.Tables(0).Rows(0)("hits").ToString **End Sub** Private Sub Countme() Dim t As New DataSet t.ReadXml(Server.MapPath("~/counter.xml")) Dim hits As Integer = Int32.Parse(t.Tables(0).Rows(0)("hits").ToString) hits += 1 t.Tables(0).Rows(0)("hits") = hits.ToString t.WriteXml(Server.MapPath("~/counter.xml")) **End Sub End Class** XML-CODE <?xml version="1.0" standalone="yes"?> <counter> <count> <hits>0</hits>

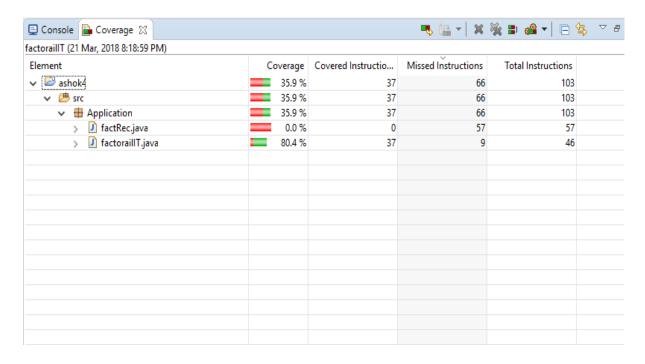
</count>
</counter>



Iterative Process

```
package Application;
import java.util.Scanner;
public class factorailIT {
       public static void main(String[] args) {
               int fact=1;
               Scanner scan=new Scanner(System.in);
               System.out.println("Enter any positive number:");
               int num=scan.nextInt();
               while(num<0)
               {
               System.out.println("Please Enter a positive integer");
               num=scan.nextInt();
               }
               for(int i=1;i<=num;i++)</pre>
               fact=fact*i;
               System.out.println("Factorial is ="+fact);
               }
}
```





Recursive Process

```
package Application;
import java.util.Scanner;
public class factRec {
       public static void main(String[] args) {
               int fact=1;
               Scanner scan=new Scanner(System.in);
               System.out.println("Enter any positive number:");
               int num=scan.nextInt();
               while(num<0)
               {
               System.out.println("Please Enter a positive integer");
               num=scan.nextInt();
               }
               int result=factorial(num);
               System.out.println("Factorial of "+ num + " is " + result);
               public static int factorial(int n)
               int result=1;
               for(int i=1;i<=n;i++)
               result=result*i;
               }
               return result;
               }
}
```

