Correct Username

```java
package LoginProject;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;

public class CorrectUsername {

    @Test
    @Parameters({"username","password"})
    public void loginWithCorrectUsername(String name, String pwd) {
        System.setProperty("webdriver.chrome.driver",
                    "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();
        driver.get("https://opensource-
demo.orangehrmlive.com/index.php/auth/login");

        WebElement username =
driver.findElement(By.id("txtUsername"));
        username.sendKeys(name);

        WebElement password =
driver.findElement(By.id("txtPassword"));
        password.sendKeys(pwd);

        WebElement loginButton =
driver.findElement(By.id("btnLogin"));
        loginButton.click();

        driver.quit();

    }


}
```

Currect Password

```java
package LoginProject;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;

public class CurrectPassword {

    @Test
    @Parameters({"username","password"})
    public void loginWithCorrectPassword(String name, String pwd) {
        System.setProperty("webdriver.chrome.driver",
                    "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();
        driver.get("https://opensource-
demo.orangehrmlive.com/index.php/auth/login");

        WebElement username =
driver.findElement(By.id("txtUsername"));
        username.sendKeys(name);

        WebElement password =
driver.findElement(By.id("txtPassword"));
        password.sendKeys(pwd);

        WebElement loginButton =
driver.findElement(By.id("btnLogin"));
        loginButton.click();

        driver.quit();

    }

}
```

Both Correct

```java
package LoginProject;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;

public class BothCorrect {

    @Test
    @Parameters({"username","password"})
    public void loginWithBothCorrect(String name, String pwd) {
        System.setProperty("webdriver.chrome.driver",
                "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();
        driver.get("https://opensource-
demo.orangehrmlive.com/index.php/auth/login");
        WebElement username =
driver.findElement(By.id("txtUsername"));
        username.sendKeys(name);

        WebElement password =
driver.findElement(By.id("txtPassword"));
        password.sendKeys(pwd);

        WebElement loginButton =
driver.findElement(By.id("btnLogin"));
        loginButton.click();

        driver.quit();

    }

}
```

Both Incorrect

```java
package LoginProject;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;

public class BothIncorrect {

    @Test
    @Parameters({"username","password"})
    public void loginWithBothIncorrect(String name, String pwd) {
        System.setProperty("webdriver.chrome.driver",
                "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();
        driver.get("https://opensource-demo.orangehrmlive.com/index.php/auth/login");

        WebElement username = driver.findElement(By.id("txtUsername"));
        username.sendKeys(name);

        WebElement password = driver.findElement(By.id("txtPassword"));
        password.sendKeys(pwd);

        WebElement loginButton = driver.findElement(By.id("btnLogin"));
        loginButton.click();

        driver.quit();

    }

}
```

XML file

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >

<suite name="Login Project" verbose="2">

    <test name="BothCorrect">
        <parameter name="username" value="Admin"></parameter>
        <parameter name="password" value="admin123"></parameter>
        <classes>
            <class name="LoginProject.BothCorrect"/>
        </classes>
    </test>

    <test name="BothIncorrect">
        <parameter name="username" value="abcd"></parameter>
        <parameter name="password" value="admin123456"></parameter>
        <classes>
            <class name="LoginProject.BothIncorrect"/>
        </classes>
    </test>

    <test name="CorrectUsername">
        <parameter name="username" value="Admin"></parameter>
        <parameter name="password" value="abcd"></parameter>
        <classes>
            <class name="LoginProject.CorrectUsername"/>
        </classes>
    </test>

    <test name="CurrectPassword">
        <parameter name="username" value="abcd"></parameter>
        <parameter name="password" value="admin123"></parameter>
        <classes>
            <class name="LoginProject.CurrectPassword"/>
        </classes>
    </test>

</suite>
```

Login(Reduced above 4 classess code)

```java
package LoginProject;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;

public class Login {

    String [][] data = {
                {"Admin","mujeeb"},
                {"mujeeb","admin123"},
                {"muneera","mujeeb"},
                {"Admin","admin123"}
    };

    @DataProvider(name="loginData")
    public String[][] loginDataProvider(){
        return data;
    }

    @Test(dataProvider = "loginData")
    public void loginWithBothCorrect(String name, String pwd) {
        System.setProperty("webdriver.chrome.driver",
                    "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();
        driver.get("https://opensource-
demo.orangehrmlive.com/index.php/auth/login");
        WebElement username =
driver.findElement(By.id("txtUsername"));
        username.sendKeys(name);

        WebElement password =
driver.findElement(By.id("txtPassword"));
        password.sendKeys(pwd);

        WebElement loginButton =
driver.findElement(By.id("btnLogin"));
        loginButton.click();
```

```
            driver.quit();

        }

}
```

XML file - Login

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >

<suite name="Login Project" verbose="2">

    <test name="Login">
        <classes>
            <class name="LoginProject.Login"/>
        </classes>
    </test>

</suite>
```

LoginJXL

```java
package LoginProject;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;

import jxl.Sheet;
import jxl.Workbook;
import jxl.read.biff.BiffException;

public class LoginJXL {

        String [][] data = null;
        WebDriver driver;

        @DataProvider(name="loginData")
        public String[][] loginDataProvider() throws BiffException, IOException{

                data = ExcelSheetGetData();
                return data;
        }

        public String[][] ExcelSheetGetData() throws BiffException, IOException {

                /* steps to follow to getting jxl file data in datadriven framework
                 * provide the address (we must save jxl file in Microsoft Excel 97-2003 Worksheet)
                 * Get woekbook
                 * Get worksheet
                 * Get sheet
                 * Get row
                 * Get column
                 * Iterate and get cell values using loops
```

```java
         * */

                FileInputStream file = new FileInputStream("C:\\Users\\Admin\\Desktop\\DataDriven
JXL.xls");

                Workbook workbook = Workbook.getWorkbook(file);
                Sheet sheet = workbook.getSheet(0);

                int rowCount = sheet.getRows();
                int columnCount = sheet.getColumns();

                String [][] dataGet = new String[rowCount-1][columnCount];

                for (int i = 1; i < rowCount; i++) {
                        for (int j = 0; j < columnCount; j++) {

                                dataGet[i-1][j] = sheet.getCell(j, i).getContents();

                        }

                }
                return dataGet;

        }

        @BeforeTest
        public void beforeTest() {
                System.setProperty("webdriver.chrome.driver",
                                "D:\\Selenium Drivers\\chromedriver_win32\\chromedriver.exe");

                driver = new ChromeDriver();

        }

        @Test(dataProvider = "loginData")
        public void loginWithBothData(String name, String pwd) {

                driver.get("https://opensource-demo.orangehrmlive.com/index.php/auth/login");

                WebElement username = driver.findElement(By.id("txtUsername"));
                username.sendKeys(name);

                WebElement password = driver.findElement(By.id("txtPassword"));
                password.sendKeys(pwd);
```

```java
            WebElement loginButton = driver.findElement(By.id("btnLogin"));
            loginButton.click();

    }

    @AfterTest
    public void afterTest() {
            driver.quit();
    }



}
```

Xml file – LoginJXL

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >

<suite name="Login Project" verbose="2">

    <test name="LoginJXL">
            <classes>
                    <class name="LoginProject.LoginJXL"/>
            </classes>
    </test>

</suite>
```

LoginPOI

```java
package LoginProject;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

import org.apache.poi.ss.usermodel.Cell;
import org.apache.poi.ss.usermodel.Row;
import org.apache.poi.ss.usermodel.Sheet;
import org.apache.poi.ss.usermodel.Workbook;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class LoginPOI {

    static List<String> userNameList = new ArrayList<String>();
    static List<String> PasswordList = new ArrayList<String>();

    public void readFile() throws IOException {

        FileInputStream file = new
FileInputStream("C:\\Users\\Admin\\\\Desktop\\DataDriven POI.xlsx");
        Workbook workbook = new XSSFWorkbook(file);
        Sheet sheet = workbook.getSheetAt(0);

        Iterator<Row> rowIterator = sheet.iterator();

        while(rowIterator.hasNext()) {
            Row rowVal = rowIterator.next();

            Iterator<Cell> columnIterator = rowVal.iterator();
            int i = 2;

            while(columnIterator.hasNext()) {
                if(i % 2 == 0) {

    userNameList.add(columnIterator.next().getStringCellValue());
```

```java
                }
                else {

PasswordList.add(columnIterator.next().getStringCellValue());
                }
                i++;
            }
        }
    }

    public void Test(String name, String pwd) {
        System.setProperty("webdriver.chrome.driver",
                "D:\\Selenium
Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();

        driver.get("https://opensource-
demo.orangehrmlive.com/index.php/auth/login");

        WebElement username =
driver.findElement(By.id("txtUsername"));
        username.sendKeys(name);

        WebElement password =
driver.findElement(By.id("txtPassword"));
        password.sendKeys(pwd);

        WebElement loginButton =
driver.findElement(By.id("btnLogin"));
        loginButton.click();

        driver.quit();

    }

    public void ExecuteTest() {
        for (int i = 0; i < userNameList.size(); i++) {
            Test(userNameList.get(i),PasswordList.get(i));
        }
    }

    public static void main(String[] args) throws IOException {
        // TODO Auto-generated method stub

        LoginPOI obj = new LoginPOI();
```

```java
        obj.readFile();
        System.out.println("Username List" + userNameList);
        System.out.println("Password List" + PasswordList);

        obj.ExecuteTest();

    }

}
```