MUMBAI EDUCATIONAL TRUST

MET Institute of Computer Science

M.C.A Semester – III

Roll No :	**1266**
Name of Student :	**Aman Verma**
Subject :	MCAL35 Software Testing & Quality Assurance Lab
Module:	5
Date:	04-11-2022

Q. 1) Demonstrate data driven framework (use excel file for test data) for login form of https://opensource demo.orangehrmlive.com/ using Selenium webdriver.

Source code:

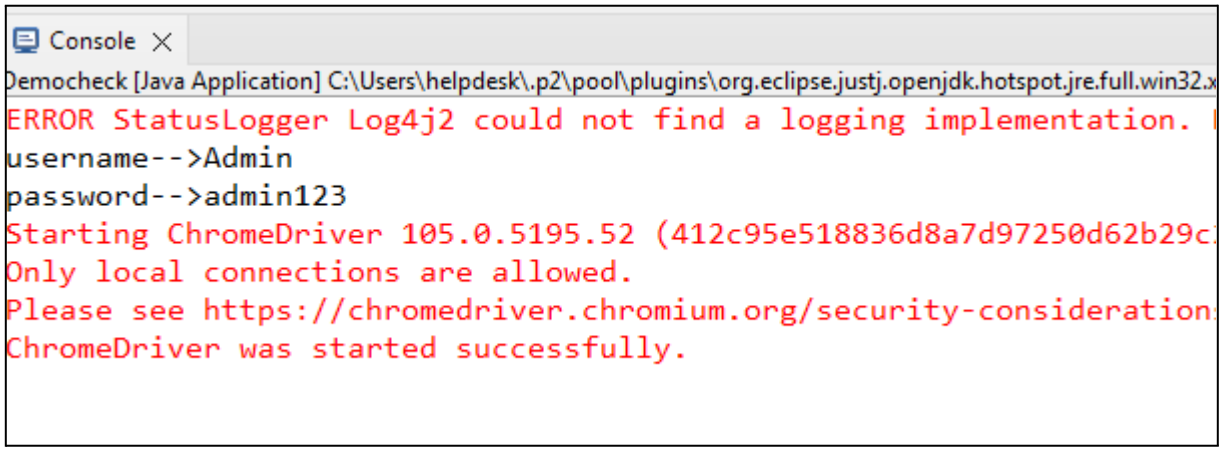
DemoCheck.java

```
package programs;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.concurrent.TimeUnit;

import org.apache.commons.collections4.Unmodifiable;
```

```
import org.apache.poi.xssf.usermodel.XSSFCell;
import org.apache.poi.xssf.usermodel.XSSFRow;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class DemoWrite {

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

		System.setProperty("webdriver.chrome.driver", "C:\\Selenium\\chromedriver.exe");

		WebDriver wd = new ChromeDriver();
		wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
		wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
		FileInputStream fis = new FileInputStream("C:\\Selenium\\DemoExcel.xlsx");
		XSSFWorkbook wb = new XSSFWorkbook(fis);
		XSSFSheet st= wb.getSheet("Sheet1");
		for(int i=1;i<=st.getLastRowNum();i++)
		{
			XSSFRow rw = st.getRow(i);
			XSSFCell un = rw.getCell(0);
			XSSFCell pd = rw.getCell(1);
			System.out.println("username-->" + un);
			System.out.println("password-->"+pd);


		wd.findElement(By.name("username")).sendKeys(un.toString());
		wd.findElement(By.name("password")).sendKeys(pd.toString());
		wd.findElement(By.cssSelector("button[type=submit]")).click();


		Thread.sleep(2000);

wd.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span")).click();
		Thread.sleep(2000);
		wd.findElement(By.linkText("Logout")).click();
		wd.quit();
```

```
            }
        wb.close();


        }



}
```

Output:



Q. 2) Demonstrate data driven framework (use excel file for test data) for login form of https://opensource demo.orangehrmlive.com/ and write the result of test case in the data file. IF the login is successful then display test result as "Valid" otherwise "Invalid"

Source code:

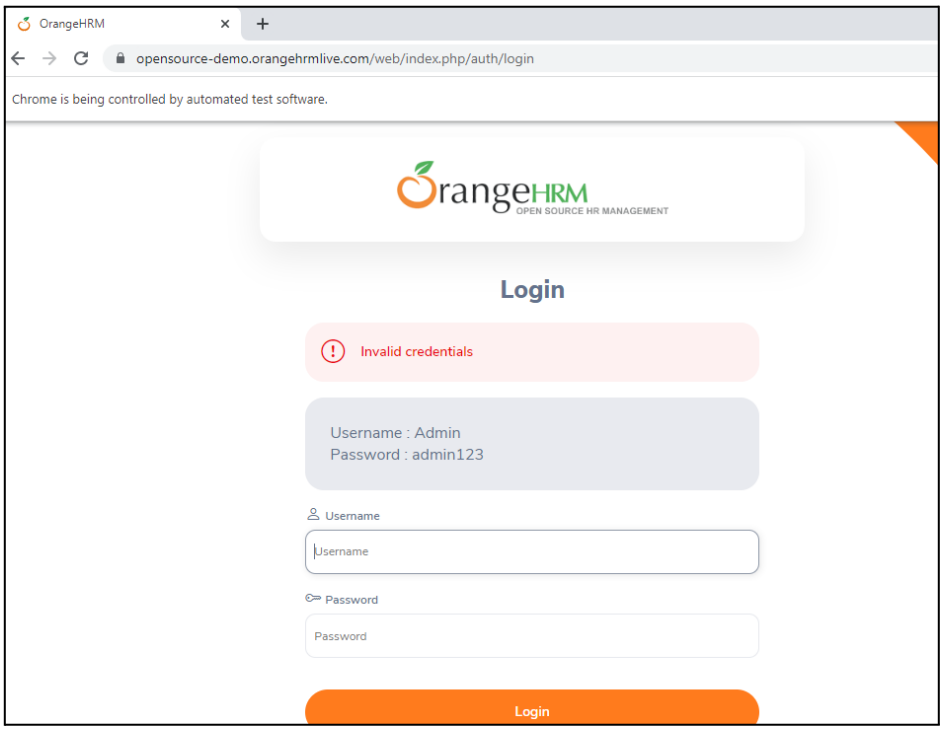
ValidInvalidDemo.java

```
package programs;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.util.concurrent.TimeUnit;

import org.apache.poi.xssf.usermodel.XSSFCell;
import org.apache.poi.xssf.usermodel.XSSFRow;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
```

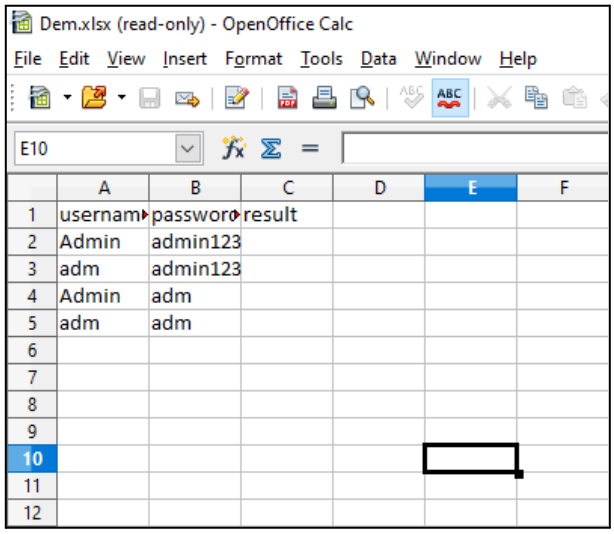
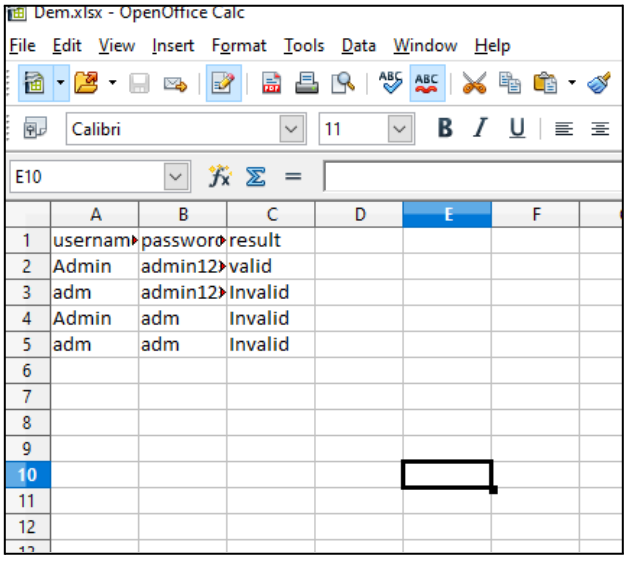
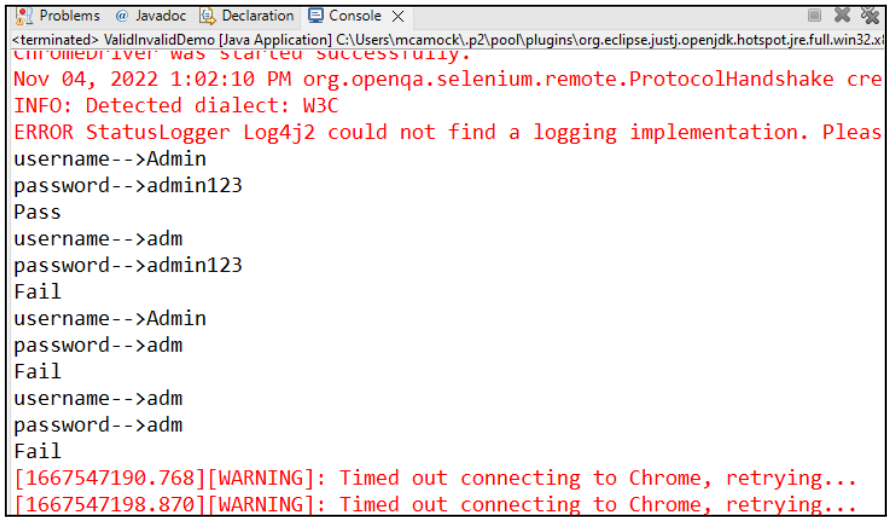
```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class ValidInvalidDemo {

	public static void main(String[] args) throws IOException, InterruptedException {
		// TODO Auto-generated method stub
System.setProperty("webdriver.chrome.driver", "C:\\Selenium\\chromedriver.exe");

		WebDriver wd = new ChromeDriver();
		wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
		wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
		FileInputStream fis = new FileInputStream("C:\\Selenium\\Dem.xlsx");
		XSSFWorkbook wb = new XSSFWorkbook(fis);
		XSSFSheet st= wb.getSheet("Sheet1");
		for(int i=1;i<=st.getLastRowNum();i++)
		{
			XSSFRow rw = st.getRow(i);
			XSSFCell un = rw.getCell(0);
			XSSFCell pd = rw.getCell(1);
			XSSFCell res = rw.createCell(2);
			System.out.println("username-->" + un);
			System.out.println("password-->"+pd);


			wd.findElement(By.name("username")).sendKeys(un.toString());
			wd.findElement(By.name("password")).sendKeys(pd.toString());
			wd.findElement(By.cssSelector("button[type=submit]")).click();

			try
			{
				Thread.sleep(2000);

wd.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span")).click();
				Thread.sleep(2000);
				wd.findElement(By.linkText("Logout")).click();
				System.out.println("Pass");
				res.setCellValue("valid");

			}
```

```
                catch(Exception ex)
                {
                        System.out.println("Fail");
                        res.setCellValue("Invalid");
                }
        }

        FileOutputStream fod = new FileOutputStream("C:\\Selenium\\Dem.xlsx");
        wb.write(fod);
        fod.close();
    wd.close();

    }

}
```

Output:



Before Testing



After Testing