=======================Assignment 33=============================

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Que1. What does the switchTo() command do?

Ans1= switchTo() command: switchTo() method allows the users to switch to a particular frame using by name of the frame or id or index. switchTo() method allows the users to switch to a frame based on the location of the Web Element.

Que2. How to Handle Alerts take an example of any site using alerts?

Ans2= CODE:

```java
package Alert_Popups_handling_Test_withPagefactory;


import java.io.File;

import java.io.IOException;


import org.apache.commons.io.FileUtils;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;


import io.github.bonigarcia.wdm.WebDriverManager;
```

```java
public class Alert_mainclass {


	public static void main(String[] args) throws IOException {

		// TODO Auto-generated method stub

		WebDriverManager.chromedriver().setup();

		ChromeOptions chromeoptions= new ChromeOptions();

		chromeoptions.addArguments("--remote-allow-
origins=*","ignore-certificate-errors");

		WebDriver drive= new ChromeDriver(chromeoptions);

		drive.manage().window().maximize();

		drive.get("https://mail.rediff.com/cgi-
bin/login.cgi");

		//drive.manage().timeouts().implicitlyWait(Duration.of
Seconds(10));



		//Screenshots

		TakesScreenshot s_obj=(TakesScreenshot)drive;

		File f_obj=s_obj.getScreenshotAs(OutputType.FILE);

		FileUtils.copyFileToDirectory(f_obj,new
File("C:\\Users\\tasharma\\Pictures\\Screenshots") , false);

		//FileUtils.copyFile(f_obj, new
File("C:\\Users\\tasharma\\Pictures\\Screenshots"));


		//Alert handling
```

```
drive.findElement(By.xpath("//input[@class='signinbtn']")).click(
);

        Alert alt=drive.switchTo().alert();

        System.out.println(alt.getText());

        alt.accept();


        drive.close();

    }



}
```
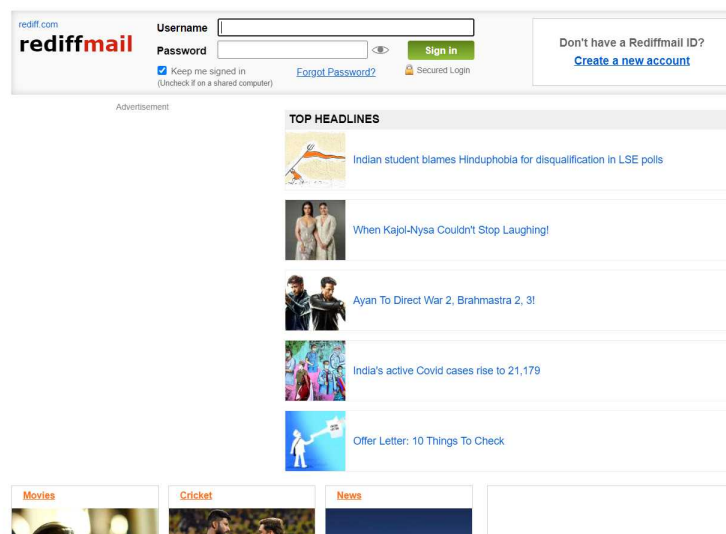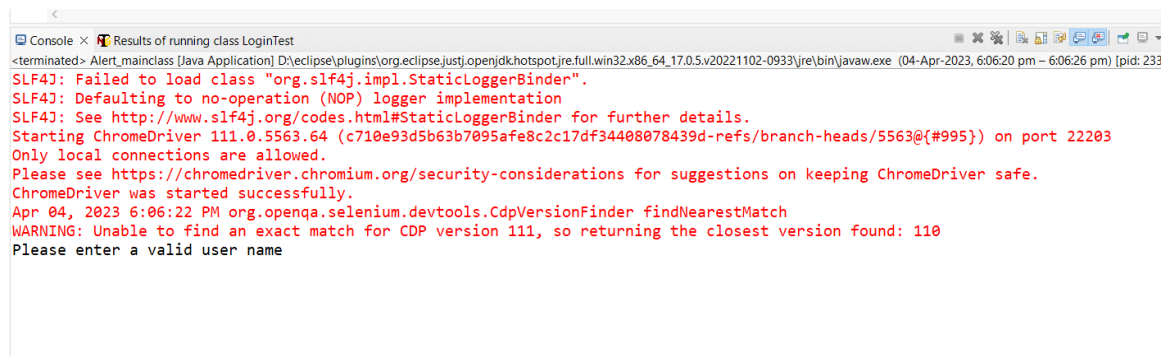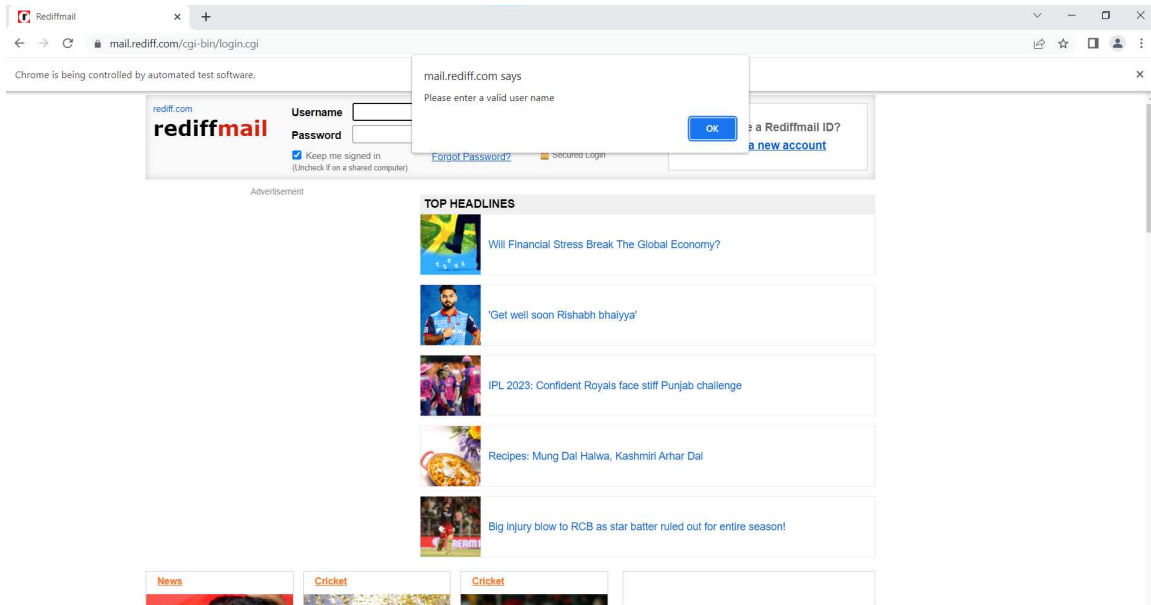
OUTPUT SCREENSHOTS:

Que3. Write a Script to open Single Tab And Window on Browser.

Ans3= CODE:

```java
package Alert_Popups_handling_Test_withPagefactory;




import java.util.Set;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

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

```java
import io.github.bonigarcia.wdm.WebDriverManager;


public class Window_singletab_mainclass {


    public static void main(String[] args) throws
InterruptedException {


        // TODO Auto-generated method stub


        //System.setProperty("webdriver.gecko.driver","C:\\Use
rs\\Abha_Rathour\\Downloads\\ExtractedFiles\\geckodriver-v0.24.0-
win64\\geckodriver.exe");

        WebDriverManager.chromedriver().setup();

        ChromeOptions chromeoptions= new ChromeOptions();

        chromeoptions.addArguments("--remote-allow-
origins=*","ignore-certificate-errors");

        WebDriver drive= new ChromeDriver(chromeoptions);

        drive.manage().window().maximize();

        drive.get("https://mail.rediff.com/cgi-
bin/login.cgi");


    drive.findElement(By.tagName("body")).sendKeys(Keys.CONTROL
+ "t");
```

```java
        Set <String> windowHandles = drive.getWindowHandles();

        System.out.println(windowHandles.size());

        for(String winHandle : drive.getWindowHandles()){

            drive.switchTo().window(winHandle);

        }

        drive.navigate().to("http://www.google.com");

    }

}
```

Que4. What is iFrame? and how to handle nested iFrames?

Ans4= iFrame: iFrame in Selenium Webdriver is a web page or an inline frame which is embedded in another web page or an HTML document embedded inside another HTML document. The iframe is often used to add content from other sources like an advertisement into a web page. The iframe is defined with the <iframe> tag.

Basically, we can switch over the elements and handle frames in Selenium using 3 ways.

- •By Index

- •By Name or Id

- •By Web Element

Handle Nested Frames in Selenium using WebDriver Commands:

- At first we must switch to the outer frame by either Index or ID of the iframe

- Once we switch to the outer frame we can find the total number of iframes inside the outer frame,

We can switch to the inner frame by any of the known methods.