Q1- Launch Firefox browser & navigate to
https://www.seleniumeasy.com/test/javascript-alert-box-demo.html

Try to Fetch the alert popup text.

Try to Dismiss the popup.

Try to enter some data on an alert popup.

Try to accept the popup.

Answer:

```
import org.openqa.selenium.By;


import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;


public class Sel2Q1 {


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

                // TODO Auto-generated method stub

                System.setProperty("webdriver.gecko.driver",
"/home/tushar/Downloads/geckodriver-v0.26.0-linux64/geckodriver");


                WebDriver driver = new FirefoxDriver();


driver.get("https://www.seleniumeasy.com/test/javascript-alert-box-demo.html");

driver.findElement(By.xpath("//div[@class='panel-body']//button[@class='btn
btn-default']")).click();

                Thread.sleep(2000);

                System.out.println(driver.switchTo().alert().getText());

                driver.switchTo().alert().accept();
```

```java
        driver.findElement(By.xpath("//button[@class='btn btn-default
btn-lg']")).click();

        Thread.sleep(2000);

        driver.switchTo().alert().dismiss();

        System.out.println("alert dismissed");

        WebElement e= driver.findElement(By.xpath("//div[@class='col-md-6
text-left']//div[3]//div[@class='panel-body']//button[@class='btn btn-default
btn-lg']"));

        e.click();

        driver.switchTo().alert().sendKeys("Tushar Bansal");

        System.out.println(driver.switchTo().alert().getText());


        Thread.sleep(2000);

        driver.switchTo().alert().accept();

    }


}
```

Q2- https://www.seleniumeasy.com/test/basic-select-dropdown-demo.html

Validate that Multi-Select List Demo is a multiple dropdown.

Fetch all the dropdown options

Select New Jersey>New York>Texas then fetch first selected option & all selected options.

Deselect all the selected options.

Answer:

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

```java
import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.ui.Select;

public class Sel2Q2 {

        public static void main(String[] args) {

                // TODO Auto-generated method stub

                System.setProperty("webdriver.chrome.driver",
"/home/tushar/Downloads/chromedriver_linux64/chromedriver");

                WebDriver driver= new ChromeDriver();

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


driver.get("https://www.seleniumeasy.com/test/basic-select-dropdown-demo.html
");

                //**********************************************

                WebElement w= driver.findElement(By.id("multi-select"));

                Select element=new Select(w);

                System.out.println(element.isMultiple());

                //**********************************************

                int
x=driver.findElements(By.xpath("//select[@id='multi-select']//option")).size();

                for(int i=0;i<x;i++)

                {

                WebElement option = element.getOptions().get(i);

                String defaultItem = option.getText();

                System.out.println(defaultItem);

                }

                //**********************************************

                element.selectByIndex(2);

                element.selectByIndex(3);

                element.selectByIndex(5);
```

```
//**************************************************

                element.deselectAll();

        }

}
```

Q3- Difference between implicit & explicit wait along with syntax.

Answer:

IMPLICIT WAIT : Implicit waits are used to provide a default waiting time (say 10 seconds) between each consecutive test step/command across the entire test script. Thus, the subsequent test step would only execute when the 10 seconds have elapsed after executing the previous test step/command.

Example:

```
driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
```

EXPLICIT WAIT: Explicit waits are used to halt the execution until the time a particular condition is met or the maximum time has elapsed. Unlike Implicit waits, Explicit waits are applied for a particular instance only.

Example:

```
 WebDriverWait wait = new WebDriverWait(driver,30);

wait.until(ExpectedConditions.visibilityOfElementLocated(By.xpath()));
```

Q4- http://demo.automationtesting.in/Frames.html

Enter the value in the filed under single Iframe as well as Iframe within an Iframe in a single script.

&

Q5- http://demo.automationtesting.in/Frames.html

Print the count of frames on this application.

Click on Sample content link & Then validate the header text as Acid-free paper for the digital age.

Answer 4 & 5:

```java
import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;


public class Sel2Q4 {


    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver",
"/home/tushar/Downloads/chromedriver_linux64/chromedriver");


        WebDriver driver = new ChromeDriver();

        driver.get("http://demo.automationtesting.in/Frames.html");

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

        Thread.sleep(3000);

        //***************************************************

        driver.findElement(By.xpath("//a[@class='analystic']")).click();

        driver.switchTo().frame("singleframe");

        driver.findElement(By.tagName("input")).sendKeys("Tushar Bansal");

        //***************************************************

driver.findElement(By.xpath("//div[1]/div/div/div/div[1]/div/ul/li[2]/a")).click();

        WebElement e=
driver.findElement(By.xpath("//*[@id='Multiple']//iframe"));
```

```
        driver.switchTo().frame(e);

        WebElement e1=
driver.findElement(By.xpath("//*[@class='row']//iframe"));

        driver.switchTo().frame(e1);

        driver.findElement(By.tagName("input")).sendKeys("Tushar Bansal");

        //****************************************************

        List<WebElement> elements =
driver.findElements(By.tagName("iframe"));

        int numberOfTags = elements.size();

        System.out.println("No. of Iframes on this Web Page are: "
+numberOfTags);



    }


}
```

Q6- https://www.toolsqa.com/automation-practice-switch-windows/

Click on New Browser Tab then click on Blog Tab in the newly opened window.

Answer:

```
import java.awt.AWTException;

import java.awt.Robot;

import java.awt.event.KeyEvent;

import java.util.ArrayList;


import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

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

```java
public class sel2q6 {

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

            System.setProperty("webdriver.chrome.driver",
"/home/tushar/Downloads/chromedriver_linux64/chromedriver");

        WebDriver driver = new ChromeDriver();

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

        Robot robot = new Robot();

        robot.keyPress(KeyEvent.VK_CONTROL);

        robot.keyPress(KeyEvent.VK_T);

        robot.keyRelease(KeyEvent.VK_CONTROL);

        robot.keyRelease(KeyEvent.VK_T);


        //Switch focus to new tab

        ArrayList<String> tabs = new ArrayList<String>
(driver.getWindowHandles());

        driver.switchTo().window(tabs.get(1));

driver.get("https://www.toolsqa.com/automation-practice-switch-windows/");

        driver.findElement(By.linkText("BLOGS")).click();


    }


}
```

Q7- https://www.myntra.com/

Mouse hover on the Home & Living tab then click clock, now validate that navigated URL is for clock section.

Answer:

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
public class sel2q7 {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
                    System.setProperty("webdriver.chrome.driver",
"/home/tushar/Downloads/chromedriver_linux64/chromedriver");
                WebDriver driver = new ChromeDriver();
                driver.manage().window().maximize();
                driver.get(" https://www.myntra.com/");
                Actions a=new Actions(driver);
                WebElement
e=driver.findElement(By.xpath("//a[@data-group='home-&-living']"));
                a.moveToElement(e).build().perform();
                WebElement e1=driver.findElement(By.linkText("Clocks"));
                e1.click();
                System.out.println(driver.getCurrentUrl());
        }

}
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
public class sel2q7 {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
                    System.setProperty("webdriver.chrome.driver",
"/home/tushar/Downloads/chromedriver_linux64/chromedriver");
                WebDriver driver = new ChromeDriver();
                driver.manage().window().maximize();
                driver.get(" https://www.myntra.com/");
                Actions a=new Actions(driver);
```

```
		WebElement
e=driver.findElement(By.xpath("//a[@data-group='home-&-living']"));
		a.moveToElement(e).build().perform();
		WebElement e1=driver.findElement(By.linkText("Clocks"));
		e1.click();
		System.out.println(driver.getCurrentUrl());
	}

}
```