```java
package Hello;

import java.awt.Desktop.Action;

import javax.swing.plaf.basic.BasicTreeUI.SelectionModelPropertyChangeHandler;

import org.openqa.selenium.By;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Actions;

public class Prog2
{
        public static void main(String[] args) throws InterruptedException
        {

  String key = "webdriver.chrome.driver";
  String value = "./Drivers/chromedriver.exe";
  System.setProperty(key,value);

  ChromeDriver d = new ChromeDriver();
  d.manage().window().maximize();
  Thread.sleep(2000);
  d.manage().window().maximize();

 //Ultimate QA website components Testing
 try
 {
 d.get("https://www.ultimateqa.com/complicated-page/");
 Thread.sleep(2000);
```

```java
System.out.println("Ulitimate QA website loading Success");

}

catch(Exception e)

{

        System.out.println("Ulitimate QA website loading Failed");

}


//Getting current title of the page

try

{

String title1=d.getTitle();

System.out.println("Current title Retrival Success");

System.out.println(title1);

}

catch(Exception e)

{

        System.out.println("Current title Retrival Failed");

}


//URL of current page

try

{

String Url1 = d.getCurrentUrl();

System.out.println("Current Url Retrival Success");

System.out.println(Url1);

}

catch(Exception e)

{

        System.out.println("Current Url Retrival Failed");

}
```

```java
//Page source of current web page

try

{

String Pagesrc1 = d.getPageSource();

System.out.println("Current page source Retrival success");

System.out.println(Pagesrc1);

}

catch(Exception e)

{

        System.out.println("Current page source Retrival Failed");

}




 //Button Testing

 try

 {

        d.findElement(By.xpath("//a[@class='et_pb_button et_pb_button_0
et_pb_bg_layout_light']")).click();

        Thread.sleep(2000);

        System.out.println("Button testing Success");

 }

 catch(Exception e)

 {

        System.out.println("Button testing Failed");

 }




//Search option Testing

 try

 {
```

```java
    d.findElement(By.xpath("//div[@class='et_pb_module et_pb_sidebar_0 et_pb_widget_area
et_pb_bg_layout_light clearfix et_pb_widget_area_left']//div[@id='search-
2']//form[@id='searchform']//div//input[@id='s']")).sendKeys("Selenium importance");

    d.findElement(By.xpath("//div[@class='et_pb_module et_pb_sidebar_0 et_pb_widget_area
et_pb_bg_layout_light clearfix et_pb_widget_area_left']//div[@id='search-
2']//form[@id='searchform']//div//input[@id='searchsubmit']")).click();

Thread.sleep(2000);

d.navigate().back();

d.navigate().refresh();

System.out.println("Search option testing success");

}

catch(Exception e)

{

        System.out.println("Search option testing Failed");

}


//Toggle Testing

try

{

d.findElement(By.xpath("//h5[contains(@class,'et_pb_toggle_title')]")).click();

Thread.sleep(2000);

System.out.println("Toggle button testing success");

}

catch(Exception e)

{

        System.out.println("Toggle button testing Failed");

}


//Email Alert function Testing

try

{

d.findElement(By.xpath("//a[contains(@title,'Click to email this to a friend')]")).click();
```

```java
d.findElement(By.xpath("//input[@id='target_email']")).sendKeys("xxx@gmail.com");

d.findElement(By.xpath("//input[@id='source_name']")).sendKeys("xxx");

d.findElement(By.xpath("//input[@id='source_email']")).sendKeys("xxx@gmail.com");

d.findElement(By.xpath("//input[contains(@value,'Send Email')]")).click();

Thread.sleep(2000);

System.out.println("Email alert function testing success");

}

catch(Exception e)

{

        System.out.println("Email alert function testing Failed");

}


//Clear Cookies of this website before Navigating

try

{

d.manage().deleteAllCookies();

System.out.println("Clearing Cookies Success");

}

catch(Exception e)

{

        System.out.println("Clearing Cookies Failed");

}


//herokuapp website Components Testing

try

{

d.navigate().to("http://the-internet.herokuapp.com/");

Thread.sleep(2000);

System.out.println("herokuapp website loading success");

}

catch(Exception e)
```

```java
{
        System.out.println("herokuapp website loading Failed");
}


//Getting current title of the page

try

{

String title2=d.getTitle();

System.out.println("Current title Retrival Success");

System.out.println(title2);

}

catch(Exception e)

{

        System.out.println("Current title Retrival Failed");

}


//URL of current page

try

{

String Url2 = d.getCurrentUrl();

System.out.println("Current Url Retrival Success");

System.out.println(Url2);

}

catch(Exception e)

{

        System.out.println("Current Url Retrival Failed");

}


//Page source of current web page

try

{
```

```java
String Pagesrc2 = d.getPageSource();

System.out.println("Current page source Retrival success");

System.out.println(Pagesrc2);

}

catch(Exception e)

{

        System.out.println("Current page source Retrival Failed");

}



//Checkbox Testing

try

{

d.findElement(By.xpath("//a[contains(text(),'Checkboxes')]")).click();

d.findElement(By.xpath("//form[@id='checkboxes']//input[1]")).click();

Thread.sleep(1000);

d.findElement(By.xpath("//form[@id='checkboxes']//input[2]")).click();

Thread.sleep(1000);

d.navigate().back();

Thread.sleep(2000);

System.out.println("Checkbox testing success");

}

catch(Exception e)

{

        System.out.println("Checkbox testing Failed");

}


try

{

//File Download Testing

d.findElement(By.xpath("//a[@href='/download']")).click();
```

```java
d.findElement(By.xpath("/html[1]/body[1]/div[2]/div[1]/div[1]/a[1]")).click();

Thread.sleep(2000);

d.navigate().back();

System.out.println("File download testing success");

}

catch(Exception e)

{

        System.out.println("File download testing Failed");

}


//Forgot Password Testing

try

{

d.findElement(By.xpath("//a[contains(text(),'Forgot Password')]")).click();

d.findElement(By.xpath("//input[@id='email']")).sendKeys("xxx@gmail.com");

d.findElement(By.xpath("//i[@class='icon-2x icon-signin']")).click();

Thread.sleep(2000);

d.navigate().back();

d.navigate().back();

System.out.println("Forgot password component testing success ");

}

catch(Exception e)

{

        System.out.println("Forgot password component testing failed ");

}


//Drop Down Testing

try

{

d.findElement(By.xpath("/html[1]/body[1]/div[2]/div[1]/ul[1]/li[9]/a[1]")).click();

Thread.sleep(1000);
```

```java
d.findElement(By.xpath("/html[1]/body[1]/div[2]/div[1]/div[1]/select[1]")).click();

Thread.sleep(2000);

d.navigate().back();

Thread.sleep(2000);

System.out.println("Drop down testing success");

}

catch(Exception e)

{

        System.out.println("Drop down testing failed");

}


//JQueryUI - Menu Testing

try

{

 d.findElement(By.xpath("//a[contains(text(),'JQuery UI Menus')]")).click();

 d.findElement(By.xpath("//a[@id='ui-id-2']")).click();

 d.findElement(By.xpath("//a[@id='ui-id-4']")).click();

 Thread.sleep(1000);

 d.navigate().refresh();

 d.navigate().back();

 d.navigate().back();

 Thread.sleep(2000);

 System.out.println("Jqueryui testing success");

}

catch(Exception e)

{

        System.out.println("Jqueryui testing Failed");

}


//Form Authentication Testing

 try
```

```java
{
d.findElement(By.xpath("//a[contains(text(),'Form Authentication')]")).click();

d.findElement(By.xpath("/html[1]/body[1]/div[2]/div[1]/div[1]/form[1]/div[1]/div[1]/input[1]")).sendKeys("tomsmith");

d.findElement(By.xpath("//input[@id='password']")).sendKeys("SuperSecretPassword!");

d.findElement(By.xpath("//i[@class='fa fa-2x fa-sign-in']")).click();

Thread.sleep(1000);

d.navigate().back();

d.navigate().back();

Thread.sleep(2000);

System.out.println("Form Authentication testing success");

}

catch(Exception e)

{

        System.out.println("Form Authentication testing Failed");

}


//Drag and drop Testing

try

{

d.findElement(By.xpath("//a[contains(text(),'Drag and Drop')]")).click();

WebElement From= d.findElement(By.xpath("//div[@id='column-a']"));

WebElement To=d.findElement(By.xpath("//div[@id='column-b']"));

Actions act=new Actions(d);

act.dragAndDrop(From, To).build().perform();

Thread.sleep(1000);

d.navigate().back();

Thread.sleep(2000);

System.out.println("Drag and drop component testing success");

}

catch(Exception e)
```

```
{

        System.out.println("Drag and drop component testing Failed");

}


//Hover over an Element Testing

try

{

d.findElement(By.xpath("//a[contains(text(),'Hovers')]")).click();

Actions action = new Actions(d);

WebElement we = d.findElement(By.xpath("//div[@class='example']//div[1]//img[1]"));

action.moveToElement(we).build().perform();

Thread.sleep(1000);

d.navigate().back();

Thread.sleep(2000);

System.out.println("Hover over component testing success");

}

catch(Exception e)

{

        System.out.println("Hover over component testing Failed");

}


//Dynamic Controls Testing

try

{

d.findElement(By.xpath("//a[contains(text(),'Dynamic Controls')]")).click();

d.findElement(By.xpath("//input[@type='checkbox']")).click();

d.findElement(By.xpath("//button[contains(text(),'Remove')]")).click();

Thread.sleep(3000);

System.out.println("Dynamic control testing success");

}

catch(Exception e)
```

```java
    {
        System.out.println("Dynamic control testing Failed");
    }


//Enable-Disable Testing

    try

    {

    d.findElement(By.xpath("//button[contains(text(),'Enable')]")).click();

    Thread.sleep(6000);

    d.navigate().back();

    Thread.sleep(2000);

    System.out.println("Enable-Disable testing success");

    }

    catch(Exception e)

    {

        System.out.println("Enable-Disable testing Failed");

    }


//Dynamic Loading Testing

    try

    {

    d.findElement(By.xpath("//a[contains(text(),'Dynamic Loading')]")).click();

    d.findElement(By.xpath("//a[contains(text(),'Example 1: Element on page that is hidden')]")).click();

    d.findElement(By.xpath("//button[contains(text(),'Start')]")).click();

    Thread.sleep(6000);

    d.navigate().back();

    d.navigate().back();

    Thread.sleep(2000);

    System.out.println("Dynamic Loading testing Success");

    }

    catch(Exception e)
```

```java
{
        System.out.println("Dynamic Loading testing Failed");
}


//Notification Message Testing

try

{

d.findElement(By.xpath("//a[contains(text(),'Notification Messages')]")).click();

Thread.sleep(2000);

d.findElement(By.xpath("//a[contains(text(),'Click here')]")).click();

Thread.sleep(1000);

d.navigate().back();

d.navigate().back();

Thread.sleep(2000);

System.out.println("Notification Message testing Success");

}

catch(Exception e)

{

        System.out.println("Notification Message testing Failed");

}


//Clear Cookies of this website before Navigating

try

{

d.manage().deleteAllCookies();

System.out.println("Clearing Cookies Success");

}

catch(Exception e)

{

        System.out.println("Clearing Cookies Failed");

}
```

```java
//demoqa website components Testing

try

{

d.navigate().to("http://demoqa.com/](http:/demoqa.com/");

Thread.sleep(2000);

d.findElement(By.xpath("//a[@class='btn btn-primary']")).click();

Thread.sleep(2000);

System.out.println("demoqa website loading success");

}

catch(Exception e)

{

        System.out.println("demoqa website loading Failed");

}


//Getting current title of the page

try

{

String title3=d.getTitle();

System.out.println("Current title Retrival Success");

System.out.println(title3);

}

catch(Exception e)

{

        System.out.println("Current title Retrival Failed");

}


//URL of current page

try

{

String Url3 = d.getCurrentUrl();
```

```java
System.out.println("Current Url Retrival Success");

System.out.println(Url3);

}

catch(Exception e)

{

        System.out.println("Current Url Retrival Failed");

}


//Page source of current web page

try

{

String Pagesrc3 = d.getPageSource();

System.out.println("Current page source Retrival success");

System.out.println(Pagesrc3);

}

catch(Exception e)

{

        System.out.println("Current page source Retrival Failed");

}



//Bookmark ,Comment and leave a reply Testing

try

{

d.findElement(By.xpath("//a[contains(text(),'permalink')]")).click();

d.findElement(By.xpath("//input[@id='author']")).sendKeys("Girish kumar");

d.findElement(By.xpath("//input[@id='email']")).sendKeys("girish@gmail.com");

d.findElement(By.xpath("//input[@id='url']")).sendKeys("http://www.girish.com");

d.findElement(By.xpath("//textarea[@id='comment']")).sendKeys("thank you for the Article");

d.findElement(By.xpath("//button[@id='submit']")).click();

Thread.sleep(2000);
```

```
System.out.println("Bookmark,comment and leave a reply testing success");

}

catch(Exception e)

{

        System.out.println("Bookmark,comment and leave a reply testing Failed");

}


//Clear Cookies of this website before Navigating

try

{

d.manage().deleteAllCookies();

System.out.println("Clearing Cookies Success");

}

catch(Exception e)

{

        System.out.println("Clearing Cookies Failed");

}


// Compendium website Testing

try

{

d.navigate().to("https://compendiumdev.co.uk/default.php");

Thread.sleep(2000);

System.out.println("Compendium Website Loading Success");

}

catch(Exception e)

{

        System.out.println("Compendium Website Loading Failed");

}


//Getting current title of the page
```

```java
try
{
String title4=d.getTitle();
System.out.println("Current title Retrival Success");
System.out.println(title4);
}
catch(Exception e)
{
        System.out.println("Current title Retrival Failed");
}


//URL of current page
try
{
String Url4 = d.getCurrentUrl();
System.out.println("Current Url Retrival Success");
System.out.println(Url4);
}
catch(Exception e)
{
        System.out.println("Current Url Retrival Failed");
}


//Page source of current web page
try
{
String Pagesrc4 = d.getPageSource();
System.out.println("Current page source Retrival success");
System.out.println(Pagesrc4);
}
catch(Exception e)
```

```java
{
        System.out.println("Current page source Retrival Failed");
}


// Hire me review and enquiry
try
{
d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[1]/a[1]")).click();
d.findElement(By.xpath("//input[@id='youremail']")).sendKeys("xxx@gmail.com");
d.findElement(By.xpath("//input[@id='yourname']")).sendKeys("Mr.X");
d.findElement(By.xpath("//textarea[@id='yourmessage']")).sendKeys("Hello ,i am looking for a job in selenium testing domain");
d.findElement(By.xpath("//input[@value='Send Consultancy Request']")).click();
Thread.sleep(2000);
System.out.println("Hire me review and enquiry testing Success");
}
catch(Exception e)
{
        System.out.println("Hire me review and enquiry testing Failed");
}


//E-training review and FAQ Review
try
{
d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[2]/a[1]")).click();
d.findElement(By.xpath("//a[contains(text(),'Selenium WebDriver With Java')]")).click();
Thread.sleep(2000);
d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/p[20]/a[1]")).click();
Thread.sleep(2000);
System.out.println("E-training review and FAQ review testing Success");
}
```

```java
        catch(Exception e)

        {

                System.out.println("E-training review and FAQ review testing Failed");

        }


        //contact us Testing

        try

        {

        d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[6]/a[1]")).click();

        Thread.sleep(2000);

        d.findElement(By.xpath("//input[@id='youremail']")).sendKeys("xxx@gmail.com");

        d.findElement(By.xpath("//input[@id='yourname']")).sendKeys("xxx");

        d.findElement(By.xpath("//textarea[@id='yourmessage']")).sendKeys("i wanted to enquire about
selenium course");

        d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[2]/form[1]/div[1]/input[2]")).click();

        Thread.sleep(3000);

        System.out.println("Contact us testing success");

        }

        catch(Exception e)

        {

                System.out.println("Contact us testing Failed");

        }


        //Books Review and download sample

        try

        {

        d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[3]/a[1]")).click();

        d.findElement(By.xpath("//a[@class='button blue']")).click();

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

        Thread.sleep(5000);

        d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/div[3]/div[1]/ul[1]/li[3]/a[1]")).click();
```

```java
d.findElement(By.xpath("//a[@class='button red']")).click();

d.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/p[7]/a[1]")).click();

Thread.sleep(5000);

d.navigate().back();

System.out.println("Books review and download sample testing Success");

}

catch(Exception e)

{

        System.out.println("Books review and download sample testing Failed");

}


d.quit();

}

}
```