Automation Practice(Task-1)

**package** Task1;

**import** java.util.List;

**import** java.util.Set;

**import** java.util.TreeSet;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.firefox.FirefoxDriver;

**import** org.openqa.selenium.interactions.Actions;

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

**import** org.testng.annotations.Test;

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

**public** **class** AutomationPractice1 {

@Test

**public** **void** practiceProgram() **throws** InterruptedException {

WebDriverManager.*firefoxdriver*().setup();

WebDriver driver=**new** FirefoxDriver();

driver.get("https://testautomationpractice.blogspot.com/");

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

//textbox

driver.findElement(By.*id*("name")).sendKeys("Priya");

driver.findElement(By.*id*("email")).sendKeys("Priyaboopathi@gmail.com");

driver.findElement(By.*id*("phone")).sendKeys("0123456789");

driver.findElement(By.*id*("textarea")).sendKeys("no:3,Raghavendra street, bannerganta road, Bangalore-560042");

System.***out***.println("1. HANDLED TEXTBOX SUCCESSFULLY");

System.***out***.println();

//radio button

driver.findElement(By.*id*("female")).click();

System.***out***.println("2. HANDLED RADIO BUTTON SUCCESSFULLY");

System.***out***.println();

//checkbox

driver.findElement(By.*id*("monday")).click();

driver.findElement(By.*id*("tuesday")).click();

driver.findElement(By.*id*("wednesday")).click();

driver.findElement(By.*id*("thursday")).click();

driver.findElement(By.*id*("friday")).click();

System.***out***.println("3. HANDLED CHECK BOX SUCCESSFULLY");

System.***out***.println();

//Handling Dropdown

//Single select Dropdown

WebElement country=driver.findElement(By.*id*("country"));

Select selCountry=**new** Select(country);

selCountry.selectByVisibleText("India");

System.***out***.println("4.a. HANDLED SINGLE SELECT DROPDOWN SUCCESSFULLY");

//Multi select dropdown

WebElement colors=driver.findElement(By.*id*("colors"));

Select selColors=**new** Select(colors);

selColors.selectByVisibleText("Red");

selColors.selectByVisibleText("Green");

selColors.selectByVisibleText("Yellow");

System.***out***.println("4.b. HANDLED MULTI SELECT DROPDOWN SUCCESSFULLY");

System.***out***.println();

//Handling date

driver.findElement(By.*id*("datepicker")).click();

driver.findElement(By.*xpath*("//a[@class='ui-datepicker-prev ui-corner-all' and @title='Prev']")).click();

driver.findElement(By.*xpath*("//table[@class='ui-datepicker-calendar']/tbody/tr[5]/td[3]")).click();

System.***out***.println("5.HANDLED DATE SUCCESSFULLY");

System.***out***.println();

//Handling web table

//Getting row size

**int** rowSize=driver.findElements(By.*xpath*("//table[@name='BookTable']/tbody/tr")).size();

System.***out***.println("The row size of web table is "+rowSize);

//Getting column size

**int** columnSize=driver.findElements(By.*xpath*("//table[@name='BookTable']/tbody/tr/th")).size();

System.***out***.println("The column size of web table is "+columnSize);

//getting price of learn Selenium

String learnSeleniumPrice=driver.findElement(By.*xpath*("//table[@name='BookTable']/tbody/tr[2]/td[4]")).getText();

System.***out***.println("Getting the price of learn selenium is "+learnSeleniumPrice);

//Author of LearnJs

String learnJSAuthor=driver.findElement(By.*xpath*("//table[@name='BookTable']/tbody/tr[4]/td[2]")).getText();

System.***out***.println("Getting the author of LearnJs is "+learnJSAuthor);

//Geting All Author names

List<WebElement> allAuthorNames=driver.findElements(By.*xpath*("//table[@name='BookTable']/tbody/tr/td[2]"));

System.***out***.print("The list of author names are ");

**for**(WebElement authornames:allAuthorNames) {

System.***out***.print(authornames.getText()+" ");

}

System.***out***.println();

//Geting All subject names by removing duplicates

List<WebElement> allSubjects=driver.findElements(By.*xpath*("//table[@name='BookTable']/tbody/tr/td[3]"));

TreeSet<String> set=**new** TreeSet<String>();

**for**(WebElement allSubject:allSubjects) {

String sub=allSubject.getText().toLowerCase();

set.add(sub);

}

System.***out***.print("The list of subjects after removing duplicates are ");

**for**(String subs:set) {

System.***out***.print(subs +" ");

}

System.***out***.println();

System.***out***.println("-----6. HANDLED WEB TABLE SUCCESSFULLY-----");

System.***out***.println();

//Handling Tabs

driver.findElement(By.*xpath*("//input[@id='Wikipedia1\_wikipedia-search-input']")).sendKeys("Google");

driver.findElement(By.*xpath*("//input[@class='wikipedia-search-button']")).click();

Thread.*sleep*(2000);

List<WebElement>searchDisplay=driver.findElements(By.*xpath*("//div[@id='wikipedia-search-result-link']"));

System.***out***.print("The list of displays are ");

**for**(WebElement search:searchDisplay) {

System.***out***.print(search.getText() +", ");

}

System.***out***.println();

String parentId=driver.getWindowHandle();

driver.findElement(By.*xpath*("//div[@id='Wikipedia1\_wikipedia-search-more']/a")).click();

Set<String> childParentId=driver.getWindowHandles();

System.***out***.println("The list of Wikipedia searces are ");

**for**(String wh:childParentId) {

**if**(wh!=parentId) {

driver.switchTo().window(wh);

Thread.*sleep*(3000);

List<WebElement> listOfSearches=driver.findElements(By.*xpath*("//div[@class='mw-search-result-heading']"));

**for**(WebElement list:listOfSearches) {

System.***out***.print(list.getText()+", ");

}

}

}

System.***out***.println();

driver.switchTo().window(parentId);

System.***out***.println("-----8. HANDLED SWITCHING TABS SUCCESSFULLY-----");

//New browser window

driver.findElement(By.*xpath*("//button[text()='New Browser Window']")).click();

Set<String> childParentId2=driver.getWindowHandles();

**for**(String wh:childParentId2) {

**if**(wh!=parentId) {

driver.switchTo().window(wh);

Thread.*sleep*(3000);

List<WebElement> listofElectronics=driver.findElements(By.*xpath*("//div[@class='description']/h4"));

List<WebElement> priceListofElectronics=driver.findElements(By.*xpath*("//div[@class='price']/span[@class='price-new']"));

**for**(**int** i=0;i<listofElectronics.size();i++) {

System.***out***.println(listofElectronics.get(i).getText()+"----------"+priceListofElectronics.get(i).getText());

}

}

}

driver.switchTo().window(parentId);

System.***out***.println();

System.***out***.println("-----9. NEW BROWSER WINDOW SUCCESSFULLY HANDLED-----");

//Alert handling

driver.findElement(By.*xpath*("//div[@class='widget-content']/button[text()='Alert']")).click();

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

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//div[@class='widget-content']/button[text()='Confirm Box']")).click();

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

Thread.*sleep*(3000);

driver.findElement(By.*xpath*("//div[@class='widget-content']/button[text()='Prompt']")).click();

driver.switchTo().alert().sendKeys("Priyanka");

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

Thread.*sleep*(3000);

System.***out***.println("-----10. ALERT HANDLED SUCCESSFULLY-----");

System.***out***.println();

//Handling Double click

JavascriptExecutor executor = (JavascriptExecutor) driver;

//executor.executeScript("arguments[0].scrollIntoView(true);", srcElement);

executor.executeScript("window.scrollBy(0,500)", "");

WebElement copyText=driver.findElement(By.*xpath*("//button[text()='Copy Text']"));

Actions act=**new** Actions(driver);

act.contextClick(copyText).build().perform();

Thread.*sleep*(2000);

String txtbox1=driver.findElement(By.*xpath*("//input[@id='field1']")).getText();

String txtbox2=driver.findElement(By.*xpath*("//input[@id='field2']")).getText();

**if**(txtbox1.equals(txtbox2)) {

System.***out***.println("The same txt entered");

}**else** {System.***out***.println("The same txt not entered");}

System.***out***.println("-----11. DOUBLE CLICK HANDLED SUCCESSFULLY-----");

System.***out***.println();

//Handling Drag and Drop

WebElement srcElement=driver.findElement(By.*id*("draggable"));

WebElement dstElement=driver.findElement(By.*id*("droppable"));

act.dragAndDrop(srcElement, dstElement).perform();

System.***out***.println("-----12. DRAG AND DROP HANDLED SUCCESSFULLY-----");

System.***out***.println();

//Handling Slider

executor.executeScript("window.scrollBy(0,500)", "");

WebElement lineOfSlider=driver.findElement(By.*xpath*("//div[@id='slider']"));

WebElement sliderBox=driver.findElement(By.*xpath*("//div[@id='slider']/span"));

**int** widthOfLineSlider=lineOfSlider.getRect().getWidth();

act.clickAndHold(sliderBox).moveByOffset(widthOfLineSlider/4, 0).release().perform();

System.***out***.println("-----13. SLIDER HANDLED SUCCESSFULLY-----");

System.***out***.println();

//Handling Frame

driver.switchTo().frame(0);

driver.findElement(By.*xpath*("//input[@id='RESULT\_TextField-0']")).sendKeys("Priya");

driver.findElement(By.*xpath*("//label[@for='RESULT\_RadioButton-1\_1']")).click();

driver.findElement(By.*xpath*("//span[@class='icon\_calendar']")).click();

driver.findElement(By.*xpath*("//table[@class='ui-datepicker-calendar']/tbody/tr[5]/td[1]")).click();

WebElement jobDropdown=driver.findElement(By.*xpath*("//select[@id='RESULT\_RadioButton-3']"));

Select sel=**new** Select(jobDropdown);

sel.selectByVisibleText("QA Engineer");

driver.findElement(By.*xpath*("//input[@id='FSsubmit']")).click();

driver.switchTo().defaultContent();

System.***out***.println("-----14. FRAME HANDLED SUCCESSFULLY-----");

System.***out***.println();

//Handling resizing

executor.executeScript("window.scrollBy(0,500)", "");

WebElement resizerBox=driver.findElement(By.*xpath*("//div[@id='resizable']"));

WebElement resizer=driver.findElement(By.*xpath*("//div[@class='ui-resizable-handle ui-resizable-se ui-icon ui-icon-gripsmall-diagonal-se']"));

act.clickAndHold(resizer).moveToElement(resizerBox, 470, 162).perform();

Thread.*sleep*(3000);

System.***out***.println("-----15. RESIZER HANDLED SUCCESSFULLY-----");

System.***out***.println();

Thread.*sleep*(4000);

driver.close();

}

}



