**package** WebDriverDemo;

**import** java.util.List;

**import** java.util.Random;

**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.support.ui.Select;

**public** **class** TodoTest {

**static** **int** *counter* = 0;

**public** **static** **void** main(String[] args) {

System.*setProperty*("webdriver.chrome.driver", "C:\\Users\\rajan\\chromedriver\_win32\\chromedriver.exe");

//CREATING WEBDRIVER INSTANCE

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

driver.get("http://localhost/qa-exercise-master/index.php");

//GET **TODO** TEXTBOX

WebElement todoTxt=driver.findElement(By.*name*("data"));

//TEXTBOX VALIDATIONS

**boolean** isTxtPresent=todoTxt.isDisplayed();

**if** (isTxtPresent!=**true**)

{

System.***out***.println("Todo add text box not displayed");

}

**boolean** isTxtEnabled=todoTxt.isEnabled();

**if** (isTxtEnabled!=**true**)

{

System.***out***.println("Todo add text box not enebled");

}

//GENERATE RANDOM TEST DATA

//todoTxt.click();

Random r = **new** Random();

**char** c = (**char**)(r.nextInt(26) + 'a');

String x =Character.*toString*(c);;

todoTxt.sendKeys(x+*counter*++);

String txt=todoTxt.getText();

**try** {

Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

//ASSIGNING CATEGORY

WebElement selCat=driver.findElement(By.*xpath*("//\*[@id=\"extra\"]/select[1]"));

Select select=**new** Select(selCat);

**try** { Thread.*sleep*(1000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

select.selectByVisibleText("College");

//ASSIGNING DATE

WebElement selDay=driver.findElement(By.*name*("due\_day"));

Select dueDay=**new** Select(selDay);

dueDay.selectByIndex(1);

WebElement selMon=driver.findElement(By.*name*("due\_month"));

Select dueMon=**new** Select(selMon);

dueMon.selectByIndex(1);

**try** {

Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

WebElement addBtn=driver.findElement(By.*xpath*("/html/body/div[4]/input[2]"));

//CLICK ON ADD BUTTON

addBtn.click();

**try** {

Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

System.***out***.println("after click add");

//driver.manage().timeouts().implicitlyWait(15, TimeUnit.SECONDS);

**if**(txt.length()>15)

{

System.***out***.println("no of charaters exceeds 15");

}

//CONFIRM WHEATHER **TODO** IS ADDED

List todoLst=driver.findElements(By.*xpath*("\*[@id=\"todos-content\"]/form/ul"));

**if**(todoLst.contains(txt));

{

System.***out***.println("Todo added");

}

//METHOD TO MODIFY **TODO**

*ModifyTodo*(driver,todoLst);

//METHOD TO DELETE **TODO**

*DeleteTodo*(driver);

}

**private** **static** **void** DeleteTodo(WebDriver driver) {

WebElement chkBox=driver.findElement(By.*xpath*("//\*[@id=\"todos-content\"]/form/ul/li[1]/input"));

//CHECK THE CHECKBOX FOR **TODO** TO BE DELETED

chkBox.click();

**try** { Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

WebElement remBtn=driver.findElement(By.*xpath*("/html/body/div[3]/input[1]"));

//CLICK REMOVE BTN

remBtn.click();

System.***out***.println("after remove btn click");

}

**public** **static** **void** ModifyTodo(WebDriver driver, List todoLst)

{

WebElement editLink=driver.findElement(By.*xpath*("//\*[@id=\"todos-content\"]/form/ul/li[1]/a"));

//CLICK ON EDIT LINK

editLink.click();

**try** {

Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

WebElement updtBtn=driver.findElement(By.*xpath*("/html/body/form/input[4]"));

//IF UPDATE BUTTON EXISTS ON THE PAGE, ITS IN EDIT MODE

**if**(updtBtn.isDisplayed())

{

System.***out***.println("todo opened in edit mode");

}

//GET UPDATE TEXTBOX AND THE TEXT FROM IT

WebElement updtTxtBox = driver.findElement(By.*xpath*("/html/body/form/input[3]"));

String updatedTxt=updtTxtBox.getText();

//UPDATE THE TEXT

updatedTxt = updatedTxt+*counter*++;

updtTxtBox.sendKeys(updatedTxt);

**try** { Thread.*sleep*(2000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

updtBtn.click();

System.***out***.println("after update btn click");

//IF LIST ON HOMEPAGE CONTAINS UPDATED TEXT,**TODO** IS UPDATED

**if**(todoLst.contains(updatedTxt)) {

System.***out***.println("todo updated");

}

}

}