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Actions: Using actions class we can perform mouse operations, like click, double click, mouse over, mouse right click, drag and drop ..etc

```
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.Point;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Actions;
public class ActionsCommands
       public static void main(String[] args)
               WebDriver Driver=new FirefoxDriver();
               //Create object for action class
               Actions A=new Actions(Driver);
               //TO perform click
               A.click(Driver.findElement(By.id("id"))).perform();
               //To perform double click
               A.doubleClick(Driver.findElement(By.name("name"))).build().perform();
               WebElement E=Driver.findElement(By.id("id"));
               A.click(E).perform();
               A.doubleClick(E).perform();
               //Mouse over
               A.moveToElement(E).perform();
               WebElement src=Driver.findElement(By.id("id"));
               WebElement des=Driver.findElement(By.id("id"));
               //Way 1 : drag and drop
               A.clickAndHold(src).perform();
               A.moveToElement(des).perform();
               A.release(des).perform();
               //Way 2
               A.dragAndDrop(src, des).perform();
               //How to take x and y \underline{co}-ordinates of an element
               WebElement src1=Driver.findElement(By.id("id"));
               WebElement des1=Driver.findElement(By.id("id"));
               Point P=des1.getLocation();
               int XA=P.getX();
               int YA=P.getY();
               A.dragAndDropBy(src1, XA, YA).perform();
               //Mouse over on location
               A.moveByOffset(XA, YA).perform();
               A.moveToElement(des1, XA, YA).perform();
               //Right click
               A.contextClick(E).perform();
               A.sendKeys(Keys.ARROW_DOWN).perform();
               A.sendKeys(Keys.ARROW_RIGHT).perform();
               A.sendKeys(Keys.ENTER).perform();
       }
         ______
Ex1: Mouse over on PIM
_____
import org.openqa.selenium.By;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
```

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```
public class MoveToPIMElement
        public static void main(String[] args) throws Exception
                 System.setProperty("webdriver.chrome.driver",
"F:\\D-Drive\\FromC\\chromedriver_win321\\chromedriver.exe");
                 ChromeDriver Brow = new ChromeDriver();
                 Brow.get("http://apps.qaplanet.in/qahrm");
                 Brow.manage().window().maximize();
                 Thread.sleep(2000);
                 Brow.findElement(By.name("txtUserName")).sendKeys("qaplanet1");
                 Brow.findElement(By.name("txtPassword")).sendKeys("lab1");
Brow.findElement(By.name("Submit")).click();
                 Thread.sleep(2000);
                 //Create object for action class
                 Actions A=new Actions(Brow);
                 //Move to PIM/Mouse over on PIM
                 WebElement PIM=Brow.findElement(By.id("pim"));
                 //Mouse over on PIM
                 A.moveToElement(PIM).perform();
                 Thread.sleep(4000);
                 Brow.findElement(By.linkText("Add Employee")).click();
                 //Click on General
                 WebElement admin=Brow.findElement(By.id("admin"));
                 A.moveToElement(admin).perform();
                 Thread.sleep(1000);
                 WebElement Cinf=Brow.findElement(By.linkText("Company Info"));
                 A.moveToElement(Cinf).perform();
                 Thread.sleep(1000);
                 Brow.findElement(By.linkText("General")).click();
                 Thread.sleep(2000);
                 Brow.findElement(By.linkText("Logout")).click();
                 Thread.sleep(2000);
                 Brow.close();
                 Brow.quit();
        }
}
//Drag and drop example
package Examples;
import org.openqa.selenium.By;
import org.openqa.selenium.Point;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Action;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
public class DragAndDrop
        public static void main(String[] args)throws Exception
                 System.setProperty("webdriver.chrome.driver", "D:\\D-Drive\\FromC\\chromedriver.exe");
                 ChromeDriver driver = new ChromeDriver();
                 driver.manage().window().maximize();
                 Actions act=new Actions(driver);
                 //*********************************
                 String URL="http://www.dhtmlx.com/docs/products/dhtmlxTree/index.shtml";
```

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```
driver.get(URL);
                   Thread.sleep(5000);
                   //Take xpath of Thriller from First box
                   WebElement
from=driver.findElement(By.xpath("//*[@id='treebox1']/div/table/tbody/tr[2]/td[2]/table/tbody/tr[2]/td[2]/table/tbody/tr
[1]/td[4]/span"));
                   //Take xpath of Horror from Second box
                   WebElement
to=driver.findElement(By.xpath("//*[@id='treebox2']/div/table/tbody/tr[2]/td[2]/table/tbody/tr[4]/td[2]/table/tbody/tr[1]
/td[4]/span"));
//Way 1
                   act.clickAndHold(from).perform();
                   act.moveToElement(to).perform();
                   act.click(to).perform();
                   Thread.sleep(1000);*/
//Way 2
                   Action dragdrop= act.clickAndHold(from).moveToElement(to).click(to).build();
                   dragdrop.perform();
//Way 3
                  act.dragAndDrop(from, to).perform();
//Way 4
                   Thread.sleep(2000);
                   Point objTo=to.getLocation();
                   //Get x and y
                   int Tox=objTo.getX();
                   int Toy=objTo.getY();
                   //act.dragAndDropBy(from, Tox, Toy).perform();
                   act.clickAndHold(from).perform();
                   Thread.sleep(1000);
                   act.moveToElement(to).moveByOffset(Tox, Toy).perform();
                   Thread.sleep(1000);
                   act.release(to).perform();
                   Thread.sleep(6000);
                   driver.close();
//
                   driver.quit();
         }
}
```