**Handling Elements in Selenium Part-3**  
  
**In Handling Elements in Selenium Part-1**  
  
i) Handle Browser  
  
ii) Handle Edit box  
  
iii) Handle Text Area, Error Message, Window Dialog  
  
iv) Handle Button  
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**In Handling Elements in Selenium Part-2**  
  
v) Handle Images (General Image, Image Button and Image Link)  
  
vi) Handle Link  
  
vii) Handle Radio Button  
  
viii) Handle Drop down box  
  
ix) Handle Check box  
  
x) Handle Web Table / HTML Table  
  
xi) Handling inline Elements  
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**Handling Elements in Selenium Part-3**  
  
xii) Handle Frames  
  
> HTML frames are used to divide the Browser window into multiple sections, where each section can load a separate HTML document.  
  
> Frames are sections of Web page displayed on top window.  
  
> Whenever we access the page then focus on the top window.  
  
**Switch to a frame is done in two ways**  
  
**1) Using frame index**  
  
Syntax:  
  
driver.swithchTo().frame(int index);  
  
Example:  
  
driver.get("http://seleniumhq.github.io/selenium/docs/api/java/index.html");  
driver.switchTo().frame(2);  
driver.findElement(By.xpath("html/body/div[3]/table/tbody[2]/tr[1]/td[1]/a")).click();  
  
**2) Using frame name**  
  
Syntax:  
  
driver.switchTo().frame(String frame Name);  
  
Example:  
  
driver.get("http://seleniumhq.github.io/selenium/docs/api/java/index.html");  
driver.switchTo().frame("classFrame");  
driver.findElement(By.xpath("html/body/div[3]/table/tbody[2]/tr[1]/td[1]/a")).click();  
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> Top window to a Frame (frame index/frame name)  
  
> Switch from a frame to Top window  
  
Syntax:  
  
driver.switchTo().defaultContent();  
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Navigation:  
  
> Launch the page   
> Switch to 3rd frame  
> Operate an element  
> Back to Top window  
> Switch to 1st frame  
> Operate an element  
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Example:  
  
WebDriver driver = new FirefoxDriver();  
driver.get("http://seleniumhq.github.io/selenium/docs/api/java/index.html");  
  
//Switch to 3rd frame  
driver.switchTo().frame(2);  
driver.findElement(By.linkText("com.thoughtworks.selenium")).click();  
Thread.sleep(3000);  
//Switch from 3rd frame to Top window  
driver.switchTo().defaultContent();  
Thread.sleep(3000);  
//Switch to 1st frame  
driver.switchTo().frame(0);  
driver.findElement(By.linkText("org.openqa.selenium")).click();  
-----------------------  
WebDriver driver = new FirefoxDriver();  
driver.get("http://seleniumhq.github.io/selenium/docs/api/java/index.html");  
Thread.sleep(3000);  
//Switch to 3rd frame  
driver.switchTo().frame("classFrame");  
driver.findElement(By.linkText("com.thoughtworks.selenium")).click();  
Thread.sleep(3000);  
//Switch from 3rd frame to Top window  
driver.switchTo().defaultContent();  
Thread.sleep(3000);  
//Switch to 1st frame  
driver.switchTo().frame("packageListFrame");  
driver.findElement(By.linkText("org.openqa.selenium")).click();  
}  
}  
-----------------------  
xiii) Handle Mouse hover  
   
WebDriver driver = new FirefoxDriver();  
driver.get("http://www.carmax.com/");  
//create Action builder instance by passing WebDriver instance  
Actions builder = new Actions(driver);  
WebElement menuElement = driver.findElement(By.linkText("Sell Us Your Car"));  
builder.moveToElement(menuElement).build().perform();  
driver.findElement(By.linkText("FAQ")).click();  
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xiv) Handle Multiple Browsers  
  
String parent = driver.getWindowHandle();  
//System.out.println(parent);  
  
Set <String> Handles = driver.getWindowHandles();  
int BrowserCount = Handles.size();  
System.out.println(BrowserCount);  
  
for (String s1:Handles){  
if (! s1.equals(parent)){  
driver.switchTo().window(s1);  
System.out.println(driver.getCurrentUrl());  
}  
}  
driver.switchTo().window(parent);  
System.out.println(driver.getCurrentUrl());  
-----------------------  
xv) Handle Duplicate objects  
  
Redirecting to GCR Shop User Interface from Admin Interface  
(After Login to Admin Interface then Redirect to User Interface)  
  
Example:  
  
driver.get("http://www.gcrit.com/build3/admin/");  
driver.findElement(By.name("username")).sendKeys("admina");  
driver.findElement(By.name("password")).sendKeys("admin@123");  
driver.findElement(By.id("tdb1")).click();  
String url = driver.getCurrentUrl();  
if (url.equals("http://www.gcrit.com/build3/admin/index.php")){  
driver.findElement(By.linkText("Online Catalog")).click();  
}  
System.out.println(driver.getCurrentUrl());  
}  
}  
-----------------------  
**Assignment:**  
  
Enter Password in to 2nd Password Edit box in www.infibeam.com Registration page.  
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