

Selenium Class 25 - Selenium WebDriver API Commands

Selenium WebDriver API Commands

- i) Browser Regular Commands
- ii) Browser Navigation Commands
- iii) Commands on Web Elements
- iv) Verification Commands on Web Elements
- v) Others

i) Browser Regular Commands

1) get()

Description:

Opens a specified URL in the Browser window

Syntax:

```
driverObject.get("URL");
```

Example:

```
driver.get("https://www.icicibank.com/");
```

2) getTitle()

Description: Returns the Current Browser Title

Syntax:

```
String browserTitle = driver.getTitle();
```

Example:

```
driver.get("https://www.icicibank.com/");  
Thread.sleep(3000);  
String title = driver.getTitle();  
System.out.println(title);
```

3) getCurrentUrl()

Description:

Returns current url of the Browser window

Syntax:

```
String browserUrl = driver.getCurrentUrl();
```

Example:

```
//Instantiate MS Edge Browser  
System.setProperty("webdriver.edge.driver", "E:/MicrosoftWebDriver.exe");  
  
//Create MS Edge Browser Driver  
WebDriver driver = new EdgeDriver();  
  
//Launch gcrShop Admin Interface  
driver.get("http://www.gcrit.com/build3/admin/");
```

```
//Click on "Online Catalog" Link in Admin Login Page  
driver.findElement(By.linkText("Online Catalog")).click();  
Thread.sleep(3000);  
String url = driver.getCurrentUrl();  
System.out.println(url);
```

ii) Browser navigation commands

4) navigate().to()

Description:

It loads a new page in the current Browser Window

Syntax:

```
driverObject.navigate().to("URL");
```

Example:

```
//Instantiate Chrome Browser driver  
System.setProperty("webdriver.chrome.driver", "E:/chromedriver.exe");
```

```
//Create Google Chrome Driver  
WebDriver driver = new ChromeDriver();  
driver.manage().window().maximize();  
  
driver.get("https://www.google.com/");
```

```
String browserUrl= driver.getCurrentUrl();  
System.out.println(browserUrl);//Google Url
```

```
driver.navigate().to("https://in.yahoo.com/");  
browserUrl= driver.getCurrentUrl();  
System.out.println(browserUrl);//Yahoo Url
```

.....

Or

```
//Instantiate Chrome Browser driver  
System.setProperty("webdriver.chrome.driver", "E:/chromedriver.exe");
```

```
//Create Google Chrome Driver  
WebDriver driver = new ChromeDriver();  
driver.manage().window().maximize();
```

```
driver.get("https://www.google.com/");  
System.out.println(driver.getCurrentUrl());//Google Url
```

```
driver.get("https://in.yahoo.com/");  
System.out.println(driver.getCurrentUrl());//Yahoo Url
```

5) navigate().back()

Description:

It moves a single item back in the browser history

Syntax:

```
driverObject.navigate().back();
```

Example:

```
//Instantiate Chrome Browser driver  
System.setProperty("webdriver.chrome.driver", "E:/chromedriver.exe");
```

```
//Create Google Chrome Driver  
WebDriver driver = new ChromeDriver();  
driver.manage().window().maximize();
```

```
driver.get("https://www.google.com/");  
System.out.println(driver.getCurrentUrl());//Google Url
```

```
driver.navigate().to("https://in.yahoo.com/");  
String url =driver.getCurrentUrl();  
System.out.println(url);//Yahoo Url
```

```
driver.navigate().back();  
System.out.println(driver.getCurrentUrl());//Google Url
```

.....

Or

```
//Instantiate Chrome Browser driver  
System.setProperty("webdriver.chrome.driver", "E:/chromedriver.exe");
```

```
//Create Google Chrome Driver
WebDriver driver = new ChromeDriver();
driver.manage().window().maximize();

driver.get("https://www.google.com/");
System.out.println(driver.getCurrentUrl());//Google Url

driver.get("https://in.yahoo.com/");
String url =driver.getCurrentUrl();
System.out.println(url);//Yahoo Url

driver.get("https://www.google.com/");
System.out.println(driver.getCurrentUrl());//Google Url
```

6) navigate().forward()

Description:

It moves a single item forward in the Browser history

Syntax:

```
driverObject.navigate().forward();
```

Example:

```
//Instantiate Chrome Browser driver
System.setProperty("webdriver.chrome.driver", "E:/chromedriver.exe");
```

```
//Create Google Chrome Driver
WebDriver driver = new ChromeDriver();
driver.manage().window().maximize();

driver.get("https://www.google.com/");
System.out.println(driver.getCurrentUrl());//Google Url

driver.navigate().to("https://in.yahoo.com/");
String url =driver.getCurrentUrl();
System.out.println(url);//Yahoo Url

driver.navigate().back();
System.out.println(driver.getCurrentUrl());//Google Url

driver.navigate().forward();
System.out.println(driver.getCurrentUrl());//Yahoo Url
```

7) navigate().refresh()

Description:

It refreshes the Browser Window

Syntax:

```
driverObject.navigate().refresh();
```

Example:

```
//Instantiate MS Edge Browser driver
```

```
System.setProperty("webdriver.edge.driver", "E:/MicrosoftWebDriver.exe");
```

```
//Create Edge Browser Driver for WebDriver interface
```

```
WebDriver driver= new EdgeDriver();
```

```
//Launch gcrShop Admin Home page
```

```
driver.get("http://www.gcrit.com/build3/admin/");
```

```
driver.findElement(By.name("username")).sendKeys("abcdef");
```

```
Thread.sleep(4000);
```

```
driver.navigate().refresh();
```

8) close()

Description:

It closes the focused Browser

Syntax:

```
driverObject.close();
```

Example:

```
//Instantiate MS Edge Browser driver
```

```
System.setProperty("webdriver.edge.driver", "E:/MicrosoftWebDriver.exe");
```

```
//Create Edge Browser Driver for WebDriver interface
```

```
WebDriver driver= new EdgeDriver();
```



```
//Launch gcrShop Admin Home page  
driver.get("http://www.gcrit.com/build3/admin/");
```

```
driver.close();
```

9) quit()

It closes all browsers that opened by WebDriver during execution

Syntax:

```
driverObject.quit();
```

Example:

```
//Instantiate MS Edge Browser driver  
System.setProperty("webdriver.edge.driver", "E:/MicrosoftWebDriver.exe");
```

```
//Create Edge Browser Driver for WebDriver interface  
WebDriver driver= new EdgeDriver();
```

```
//Launch gcrShop Admin Home page  
driver.get("file:///E:/HTMLExamples/LoginPage.html");
```

```
driver.findElement(By.linkText("Sign In")).click();
```

```
driver.quit();
```

iii) Commands on Elements

10) findElement

It finds first element within the current web page using given locator

Syntax:

```
driverObject.findElement(By.locator("value").WebDriverCommand());
```

Example:

```
//Instantiate MS Edge Browser driver
```

```
System.setProperty("webdriver.edge.driver", "E:/MicrosoftWebDriver.exe");
```

```
//Create Edge Browser Driver for WebDriver interface
```

```
WebDriver driver= new EdgeDriver();
```

```
//Launch gcrShop Admin Home page
```

```
driver.get("https://www.google.com/");
```

```
driver.findElement(By.partialLinkText("ma")).click();
```

11) sendKeys()

It enters a value in to an Edit Box or Text box

Syntax:

```
driverObject.WebDriverCommand/findElement(By.elementLocator("value")).  
sendKeys(Parameter/"value");
```

Example:

```
driver.findElement(By.name("username")).sendKeys("india@123");
```

or

```
String user="India@123";
```

```
driver.findElement(By.name("username")).sendKeys(user);
```

12) clear()

It clears the Value from an Edit box or Text Box

Syntax:

```
driverObject.WebDriverCommand/findElement(By.locatorname("value")).We  
bDriverCommand/clear();
```

Example:

```
driver.findElement(By.name("username")).sendKeys("India123@gmail.com"  
);
```

```
Thread.sleep(4000);
```

```
driver.findElement(By.name("username")).clear();
```

13) click()

Description:

It clicks an Element (Button, Link, Radio Button, Checkbox)

Syntax:

```
driverObject.WebDriverCommand/findElement(By.ElementLocator("LocatorValue")).WebDriverCommand/click();
```

Example:

```
driver.findElement(By.linkText("Gmail")).click();
```

```
Thread.sleep(3000);
```

```
driver.findElement(By.linkText("SIGN IN")).click();
```

```
driver.findElement(By.cssSelector("#identifierNext > content")).click();
```

```
driver.navigate().to("http://www.gcrit.com/build3/create_account.php?osCsid=bhqj38g35mq33rttsb4a70k077");
```

```
Thread.sleep(3000);
```

```
driver.findElement(By.name("gender")).click();
```

```
Thread.sleep(3000);
```

```
driver.findElement(By.name("newsletter")).click();
```