

# Automation Programs

## 1)Open And Redirect Google

```
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.WebDriver;

public class GoogleRedirect{
    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver","F:\\chromedriver.exe");

        WebDriver a= new ChromeDriver();
        a.get("http://www.google.com");
        a.manage().window().maximize();

        String s =a.getTitle();
        if(s.equalsIgnoreCase("google")) {
            System.out.println("Title is verified");
        }
        else
        {
            System.out.println("Title is not verified");
        }
        a.navigate().to("http://www.google.co.in");
    }
}
```

```

        a.close();
    }

}

```

**Output:** Starting ChromeDriver 120.0.6099.71  
(9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/branch-heads/6099\_56@{#13}) on port 52097

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.

Title is verified

## 2)Chrome Driver

```

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

class Chromedriver{

    public static void main(String args[]) {

        System.setProperty("webdriver.chrome.driver","D://chromedriver.exe");

        WebDriver driver=new ChromeDriver();

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

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

        System.out.println(driver.getTitle());

        System.out.println(driver.getCurrentUrl());

        driver.close();
    }
}

```

```
}  
  
}
```

**Output:** Starting ChromeDriver 120.0.6099.71  
(9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/branch-heads/6099\_56@{#13}) on port 8561

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.

Google

<https://www.google.com/>

### 3)Microsoft Edge Driver

```
import org.openqa.selenium.edge.EdgeDriver;  
  
public class MicrosoftEdge {  
  
    public static void main(String[] args){  
  
        System.setProperty("webdriver.edge.driver","C://msedgedriver.exe");  
  
        EdgeDriver a=new EdgeDriver();  
  
        a.get("http://www.Google.com");  
  
        a.manage().window().maximize();  
  
        System.out.println(a.getTitle());  
  
        System.out.println(a.getCurrentUrl());  
  
        a.close();  
  
    }  
  
}
```

**Output:** Starting Microsoft Edge WebDriver 119.0.2151.97  
(42f50dec8b7a97d2cd39634128418ccfb4ef77b8) on port 17502

To submit feedback, report a bug, or suggest new features, please visit  
<https://github.com/MicrosoftEdge/EdgeWebDriver>

Only local connections are allowed.

Please see <https://aka.ms/WebDriverSecurity> for suggestions on keeping Microsoft Edge WebDriver safe.

Microsoft Edge WebDriver was started successfully.

[1702815884.958][WARNING]: This version of Microsoft Edge WebDriver has not been tested with Microsoft Edge version 120.

Google

<https://www.google.com/>

## 4)Basic Cookie Creation

```
import java.util.Set;
import org.openqa.selenium.Cookie;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class BasicCookie {
    public static void main(String[] args) {
        System.setProperty("webdriver.chrome.driver","F://chromedriver.exe");

        WebDriver driver=new ChromeDriver();
        driver.get("https://www.amazon.com/");
        driver.manage().window().maximize();
        Set <Cookie> cookies=driver.manage().getCookies();
        System.out.println("Size of cookies:"+cookies.size());
        for(Cookie cookie:cookies) {
            System.out.println(cookie.getName()+":"+cookie.getValue());
        }
        System.out.println(driver.manage().getCookieNamed("session-id"));
        driver.manage().addCookie(new Cookie("mycookie123","1234"));
```

```

Set <Cookie> cookies1=driver.manage().getCookies();
System.out.println("Size of cookies:"+cookies1.size());
for(Cookie cookie1:cookies) {
    System.out.println(cookie1.getName()+":"+cookie1.getValue());
}
driver.manage().deleteCookieNamed("mycookie123");
Set <Cookie> cookies2=driver.manage().getCookies();
System.out.println("Size of cookies:"+cookies2.size());
for(Cookie cookie2:cookies) {
    System.out.println(cookie2.getName()+":"+cookie2.getValue());
}
driver.manage().deleteAllCookies();
Set <Cookie> cookies3=driver.manage().getCookies();
System.out.println("Size of cookies:"+cookies3.size());
}
}

```

**Output:** Starting ChromeDriver 120.0.6099.71  
(9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/branch-heads/6099\_56@{#13}) on port 27020

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.

Size of cookies:8(**before Adding one cookie**)

sp-cdn:"L5Z9:IN"

i18n-prefs:USD

ubid-main:133-9281085-8753329

session-id-time:20827872011

skin:noskin

session-

token:2e8AlkSe1BFNMdn3YBE5ZNZDolAEQHzm8hIPcGTDJMYXk1WCyCpwRzcJH1z

mevGZab81VvD0i6TNEaiz2cZpJxUWd0yC9C6bpMxWy/En4T33QILmGRcijT/jTxqddoQv  
DMDEXD8vFXGHPzzP7vd19VAq4CyXluKEmrnORLTkQt52YTeP0jSW9/KeiPYnO6o6bS  
1hK2ZeaBphKZocdGQgr/seHwSo9YuIm98mTTyKeoweZsUibgqfm0ruvs4GIg6Xc4CYgl4j  
mrrirP7XizYEaaXRWXu1TZJTpO5iVC+IXIKWJL/DdLSLYoMoMoRKBKAc91/8kEjcwZ+  
FrdgmiKKAGGmdB2n9Y5qDT

csm-hit:tb:s-

TYFZFMQGHG3405M2VK78|1702816107510&t:1702816107834&adb:adblk\_no

session-id:130-8967695-8035160

session-id=130-8967695-8035160; expires=Mon, 16 Dec 2024 05:58:31 IST; path=/;  
domain=.amazon.com;secure;

Size of cookies:9(after adding one cookie)

sp-cdn:"L5Z9:IN"

i18n-prefs:USD

ubid-main:133-9281085-8753329

session-id-time:20827872011

skin:noskin

session-

token:2e8AlkSe1BFNMdn3YBE5ZNZDolAEQHzm8hIPcGTDJMYXk1WCyCpwRzcJH1z  
mevGZab81VvD0i6TNEaiz2cZpJxUWd0yC9C6bpMxWy/En4T33QILmGRcijT/jTxqddoQv  
DMDEXD8vFXGHPzzP7vd19VAq4CyXluKEmrnORLTkQt52YTeP0jSW9/KeiPYnO6o6bS  
1hK2ZeaBphKZocdGQgr/seHwSo9YuIm98mTTyKeoweZsUibgqfm0ruvs4GIg6Xc4CYgl4j  
mrrirP7XizYEaaXRWXu1TZJTpO5iVC+IXIKWJL/DdLSLYoMoMoRKBKAc91/8kEjcwZ+  
FrdgmiKKAGGmdB2n9Y5qDT

csm-hit:tb:s-

TYFZFMQGHG3405M2VK78|1702816107510&t:1702816107834&adb:adblk\_no

session-id:130-8967695-8035160

Size of cookies:8(after deleting one cookie)

sp-cdn:"L5Z9:IN"

i18n-prefs:USD

ubid-main:133-9281085-8753329

session-id-time:20827872011

skin:noskin

session-

token:2e8AlkSe1BFNMdn3YBE5ZNZDolAEQHzm8hIPcGTDJMYXk1WCyCpwRzcJH1z  
mevGZab81VvD0i6TNEaiz2cZpJxUWd0yC9C6bpMxWy/En4T33QILmGRcijT/jTxqddoQv  
DMDEXD8vFXGHPzzP7vd19VAq4CyXluKEmrnORLTkQt52YTeP0jSW9/KeiPYnO6o6bS

1hK2ZeaBphKZocdGQgr/seHwSo9YuIm98mTTyKeoweZsUibgqfm0ruvs4GIg6Xc4CYgl4j  
mrirP7XizYEaaXRWXu1TZJTpO5iVC+IXIKWJL/DdLSLYoMoMoRKBKAc91/8kEjcwZ+  
FrdgmiKKAGGmdB2n9Y5qDT

csm-hit:tb:s-

TYFZFMQGHG3405M2VK78|1702816107510&t:1702816107834&adb:adblk\_no

session-id:130-8967695-8035160

Size of cookies:0(**After deleting all cookies**)

## 5)Test Cookie Creation

```
import org.openqa.selenium.Cookie;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class TestCookie{
public static void main(String[] args) {
    System.setProperty("webdriver.chrome.driver","F:\\chromedriver.exe");
    WebDriver driver = new ChromeDriver();
    driver.get("https://www.amazon.com");
    Cookie cookie = new Cookie("test_cookie","cookie_value");
    driver.manage().addCookie(cookie);
    driver.navigate().refresh();
    Cookie testCookie = driver.manage().getCookieNamed("test_cookie");
    if(testCookie != null)
    {
        System.out.println("Cookie 'test_cookie' has been created successfully");
    }
    else
    {
        System.out.println("Cookie 'test_cookie' creation failed");
    }
}
```

```

Cookie existingCookie = driver.manage().getCookieNamed("test_cookie");
if(existingCookie != null)
{
    String cookieValue = existingCookie.getValue();
    System.out.println("Cookie 'test_cookie' value:" + cookieValue);
}
else
{
    System.out.println("Cookie 'test_cookie' not found!");
}
}
}

```

## Output:

Starting ChromeDriver 120.0.6099.71 (9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/branch-heads/6099\_56@{#13}) on port 23069

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.

Cookie 'test\_cookie' has been created successfully

Cookie 'test\_cookie' value:cookie\_value

## 6)Closing All Browsers

```

import org.openqa.selenium.chrome.ChromeDriver;
import java.util.Set;
import org.openqa.selenium.WebDriver;
public class ClosingAllBrowsers {
public static void main(String[] args) throws InterruptedException {

```



```

        System.setProperty("webdriver.chrome.driver","D:\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("https://example.com");
        driver.get("https://google.com");
        Set<String> windowhandles = driver.getWindowHandles();
        for(String windowhandle : windowhandles)
        {
            driver.switchTo().window(windowhandle);
            driver.close();
        }

        if(driver.getWindowHandle().isEmpty())
        {
            System.out.println("Failed to close all windows ");
        }
        else
        {
            System.out.println("All windows are closed.");
        }
    }
}

```

### Output:

Starting ChromeDriver 120.0.6099.71 (9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/branch-heads/6099\_56@{#13}) on port 45470

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.

All windows are closed.

## 7)TestNg

```
package MyNG;

import org.testng.annotations.Test;

public class TestNG {

    public class NewTest {

        @Test(priority=1)
        public void login() {

            System.out.println("Login is successfull!");

        }

        @Test(priority=2)
        public void customer()
        {

            System.out.println("Customer details updated.");

        }

        @Test(priority=3)
        public void product()
        {

            System.out.println("Product delivered.");

        }

        @Test(priority=4)
        public void payment()
        {

            System.out.println("payment successfully done.");

        }

        @Test(enabled=false)
        public void delivery()
        {

            System.out.println("delivery done.");

        }

    }

}
```

```

    }
    @Test(priority=5)
    public void logout()
    {
        System.out.println("Logout successfully done");
    }
}

```

## Output:

[RemoteTestNG] detected TestNG version 7.4.0

Login is successfull!

Customer details updated.

Product delivered.

payment successfully done.

Logout successfully done

PASSED: login

PASSED: customer

PASSED: payment

PASSED: logout

PASSED: product

=====

Default test

Tests run: 5, Failures: 0, Skips: 0

=====

=====

Default suite

Total tests run: 5, Passes: 5, Failures: 0, Skips: 0

=====

## 8)Opening Browser Using TestNg

```
package MyNG;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

public class OpeningBrowesrNG {
    WebDriver d;

    @Test(priority=1)
    public void opening_browser()
    {
        System.setProperty("webdriver.chrome.driver","D://chromedriver.exe");
        d=new ChromeDriver();
        d.get("https://www.google.com");
        d.manage().window().maximize();
    }

    @Test(priority=3)
    public void run()
    {
        System.out.println(d.getCurrentUrl());
    }

    @Test(priority=4)
    public void close()
    {
        d.close();
    }
}
```

**Output:** [RemoteTestNG] detected TestNG version 7.4.0

Starting ChromeDriver 120.0.6099.71 (9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/branch-heads/6099\_56@{#13}) on port 53398

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.

<https://www.google.com/>

PASSED: opening\_browser

PASSED: run

PASSED: close

=====

Default test

Tests run: 3, Failures: 0, Skips: 0

=====

=====

Default suite

Total tests run: 3, Passes: 3, Failures: 0, Skips: 0

=====

## 9)Facebook Login

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.WebElement;
public class Facebook {
    public static void main(String[] args)
    {
        System.setProperty("webdriver.chrome.driver","D:\\chromedriver.exe");
        WebDriver a = new ChromeDriver();
```

```
a.manage().window().maximize();
a.get("http://www.facebook.com");
WebElement username = a.findElement(By.name("email"));
username.sendKeys("Your Email");
a.findElement(By.name("email")).click();
WebElement password=a.findElement(By.name("pass"));
password.sendKeys("Your password");
a.findElement(By.id("pass")).click();
a.findElement(By.tagName("Button")).click();
    }
}
```

### **Output:**

Starting ChromeDriver 120.0.6099.71 (9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/branch-heads/6099\_56@{#13}) on port 37858

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.