

CIA 1-SOFTWARE TESTING USING SELENIUM

1.

```
package com.CIA1;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import io.github.bonigarcia.wdm.WebDriverManager;

public class Q1
{
    public static void main( String[] args ) throws
InterruptedException
    {
        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allow-origins=*");
        WebDriverManager.chromedriver().setup();
        WebDriver driver = new ChromeDriver(co);
        driver.get("https://www.amazon.in/ASUS-15-6-inch-
GeForce-Windows-FA506IHRZ-
HN111W/dp/B0B5DZTNZQ?ref_=Oct_DLandingS_D_6cla28b8_61");
        driver.manage().window().maximize();
        String title = driver.getTitle();
        String etitle = "ASUS TUF Gaming A15, 15.6-inch (39.62
cms) FHD 144Hz, AMD Ryzen 5 4600H, 4GB NVIDIA GeForce GTX 1650, Gaming
Laptop (8GB/512GB SSD/Windows 11/Black/2.3 Kg), FA506IHRZ-HN111W :
Amazon.in: Computers & Accessories";
        System.out.println(title);
        if(title.equals(etitle)) {
            System.out.println("Title is matching");
        }
        else {
            System.out.println("Title Mismatch");
        }
        driver.findElement(By.xpath("//*[@id=\"add-to-cart-
button\"]")).click();
        Thread.sleep(5000);
        Boolean present =
driver.findElement(By.xpath("//*[@id=\"attach-close_sideSheet-
link\"]")).isDisplayed();
        System.out.println("Is item added to cart:" + present);

        driver.get("https://www.amazon.in/gp/cart/view.html/ref=dp_atc_dss_cart?")
;
        Thread.sleep(5000);

        driver.findElement(By.xpath("//*[@value=\"Delete\"]")).click();
        Thread.sleep(2000);
        String removeText =
driver.findElement(By.xpath("//*[@id=\"sc-active-
cart\"]/div/div[1]/div/h1")).getText();
        String extext = "Your Amazon Cart is empty.";
        if(removeText.equals(extext)) {
            System.out.println("Product is removed");
        }
    }
}
```

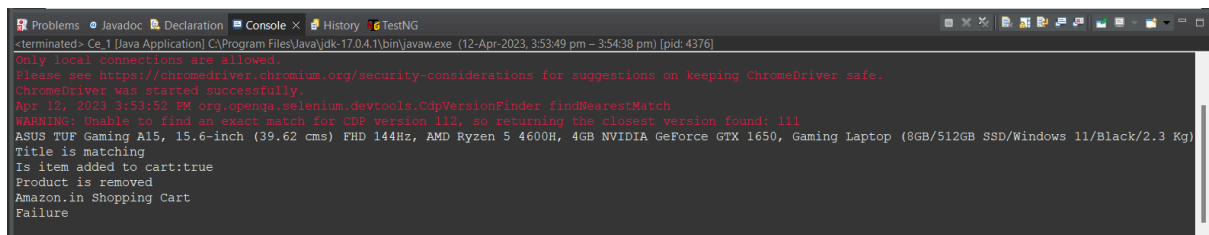
```
        driver.get("https://www.amazon.in/ASUS-15-6-inch-GeForce-Windows-FA506IHRZ-HN111W/dp/B0B5DZTNZQ?ref_=Oct_DLandingS_D_6c1a28b8_61");
        driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
        Thread.sleep(2000);

driver.get("https://www.amazon.in/gp/cart/view.html/ref=dp_atc_dss_cart?");
;
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id=\"a-autoid-0-announce\"]")).click();

driver.findElement(By.xpath("//*[@id=\"quantity_2\"]")).click();
        Thread.sleep(2000);

driver.findElement(By.xpath("//*[@name=\"proceedToRetailCheckout\"] "));
        Thread.sleep(1000);
        String sign = driver.getTitle();
        System.out.println(sign);
        String esign = "Amazon Sign In";
        if(sign.equals(esign)) {
            System.out.println("Success");
        }
        else {
            System.out.println("Failure");
        }
    }
}
```

OUTPUT:



```
<terminated> Ce-1 [Java Application] C:\Program Files\Java\jdk-17.0.4\bin\javaw.exe (12-Apr-2023, 3:53:49 pm - 3:54:38 pm) [pid: 4376]
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 12, 2023 3:53:52 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 112, so returning the closest version found: 111
ASUS TUF Gaming A15, 15.6-inch (39.62 cms) FHD 144Hz, AMD Ryzen 5 4600H, 4GB NVIDIA GeForce GTX 1650, Gaming Laptop (8GB/512GB SSD/Windows 11/Black/2.3 Kg)
Title is matching
Is item added to cart:true
Product is removed
Amazon.in Shopping Cart
Failure
```

Q2.

```
package com.CIA1;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Q2 {
    public static void main(String[] args) throws InterruptedException {
        // Open the Amazon website
        System.setProperty("webdriver.chrome.driver",
"path/to/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.amazon.com/");
```

```
// Verify that the user can search any product on website and the
corresponding search product details needs to be displayed
WebElement searchBox =
driver.findElement(By.id("twotabsearchtextbox"));
searchBox.sendKeys("iPhone");
WebElement searchButton = driver.findElement(By.id("nav-search-
submit-button"));
searchButton.click();

// Print minimum 5 Names of the products displayed on the webpage
System.out.println("Product Names:");
for (int i = 1; i <= 5; i++) {
    WebElement productName =
driver.findElement(By.xpath("//span[@class='a-size-base-plus a-color-base
a-text-normal']")[" + i + ""]);
    System.out.println(productName.getText());
}

// Verify that the user can filter the search results by category,
price, and other parameters
WebElement categoryDropdown =
driver.findElement(By.id("searchDropdownBox"));
categoryDropdown.click();
WebElement electronicsOption =
driver.findElement(By.xpath("//option[contains(text(), 'Electronics')]"));
electronicsOption.click();
WebElement sortDropdown =
driver.findElement(By.xpath("//span[@class='a-dropdown-label']"));
sortDropdown.click();
WebElement priceHighToLowOption =
driver.findElement(By.xpath("//a[contains(text(), 'Price: High to
Low')]"));
priceHighToLowOption.click();

// Close the browser
Thread.sleep(5000);
driver.quit();
}
}
```

OUTPUT:

```
SEF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SEF4J: Defaulting to no-operation (NOP) logger implementation
SEF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Starting Chromedriver 112.0.5615.49 (bd2876c885c11e5cfe2078709382934e3916914-refs/branch-heads/56158(#936)) on port 34637
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping Chromedriver safe.
Chromedriver was started successfully.
Apr 12, 2023 4:07:40 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 112, so returning the closest version found: 111
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched
Apple 2020 MacBook Air Laptop M1 chip, 13.3-inch/33.74 cm Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, FaceTime HD Camera, Touch ID. Works
Apple 2022 MacBook Air Laptop with M2 chip: 34.46 cm (13.6-inch) Liquid Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Cam
Apple 2020 MacBook Air Laptop M1 chip, 13.3-inch/33.74 cm Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, FaceTime HD Camera, Touch ID. Works
Apple 2020 MacBook Air Laptop M1 chip, 13.3-inch/33.74 cm Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, FaceTime HD Camera, Touch ID. Works
Apple 2022 MacBook Air Laptop with M2 chip: 34.46 cm (13.6-inch) Liquid Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Cam
```

Q3.

package com.test.CA1;

```
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.chrome.ChromeOptions;

import io.github.bonigarcia.wdm.WebDriverManager;

public class Ce_3 {

    public static void main(String[] args) {

        ChromeOptions co=new ChromeOptions();
        co.addArguments("--remote-allow-origins=*");
        WebDriverManager.chromedriver().setup();
        WebDriver driver=new ChromeDriver(co);
        driver.get("https://www.amazon.in/");
        driver.manage().window().maximize();
        String currentTitle=driver.getTitle();
        System.out.println(currentTitle);
        String expectedTitle="Online Shopping site in India: Shop Online for Mobiles, Books,
Watches, Shoes and More - Amazon.in";
        if(currentTitle.equals(expectedTitle)) {
            System.out.println("Title Matched");
        }
        else {
            System.out.println("Title not Matched");
        }
        driver.findElement(By.xpath("//*[@id=\"nav-link-accountList\"]")).click();
        WebElement txtBox1=driver.findElement(By.xpath("//*[@id=\"ap_email\"]"));
        txtBox1.sendKeys("9677904185");
        driver.findElement(By.xpath("//*[@id=\"continue\"]")).click();
        WebElement txtBox2=driver.findElement(By.xpath("//*[@id=\"ap_password\"]"));
        txtBox2.sendKeys("shankar@3002");
        driver.findElement(By.xpath("//*[@id=\"signInSubmit\"]")).click();

        driver.findElement(By.xpath("//*[@id=\"nav-link-accountList\"]")).click();
        driver.findElement(By.xpath("//*[@id=\"a-
page\"]/div[2]/div[2]/div[1]/a/div/div")).click();
        driver.findElement(By.xpath("//*[@id=\"a-autoid-2-announce\"]")).click();
        driver.findElement(By.xpath("//*[@id=\"ordersInPackage-
container\"]/div/div/a[1]")).click();
    }
}

```

OUTPUT:

```

SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/56150[#936]) on port 46763
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 12, 2023 4:20:32 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 112, so returning the closest version found: 111
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched

```