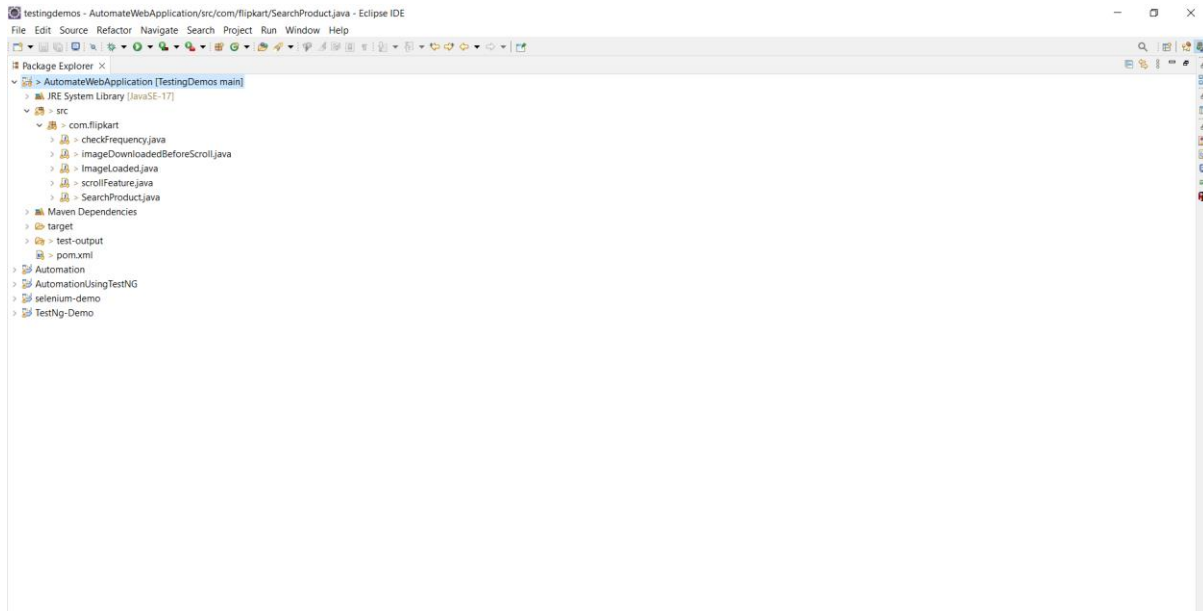
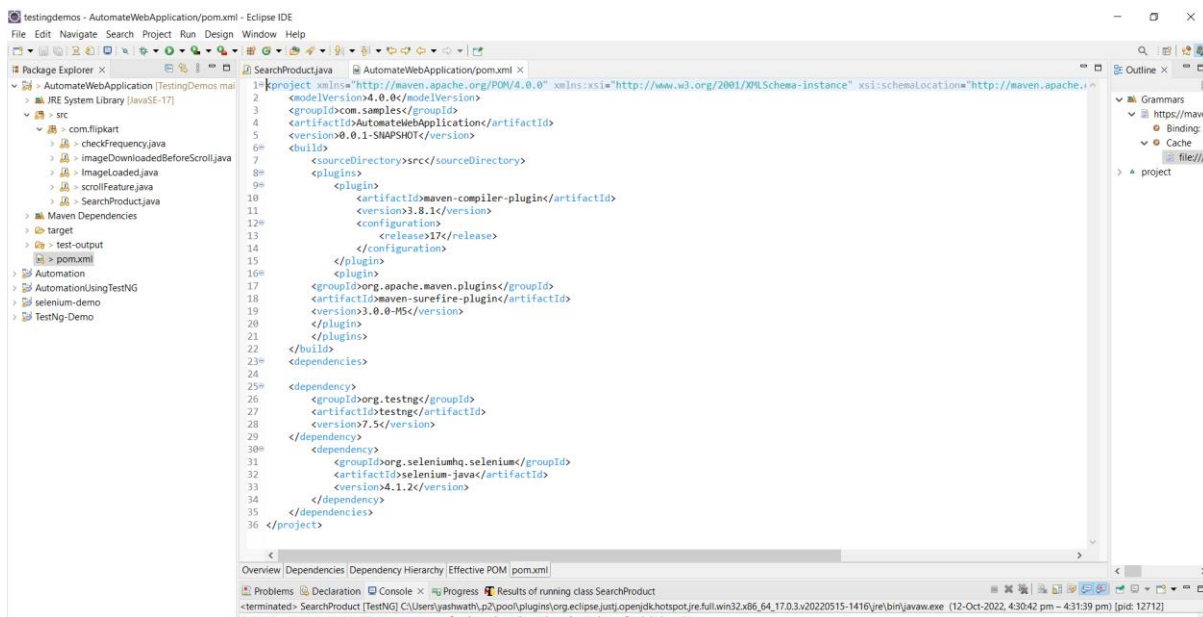


# Automation on Real World Project – Flipkart

- Here is the project structure of testNg – Automation

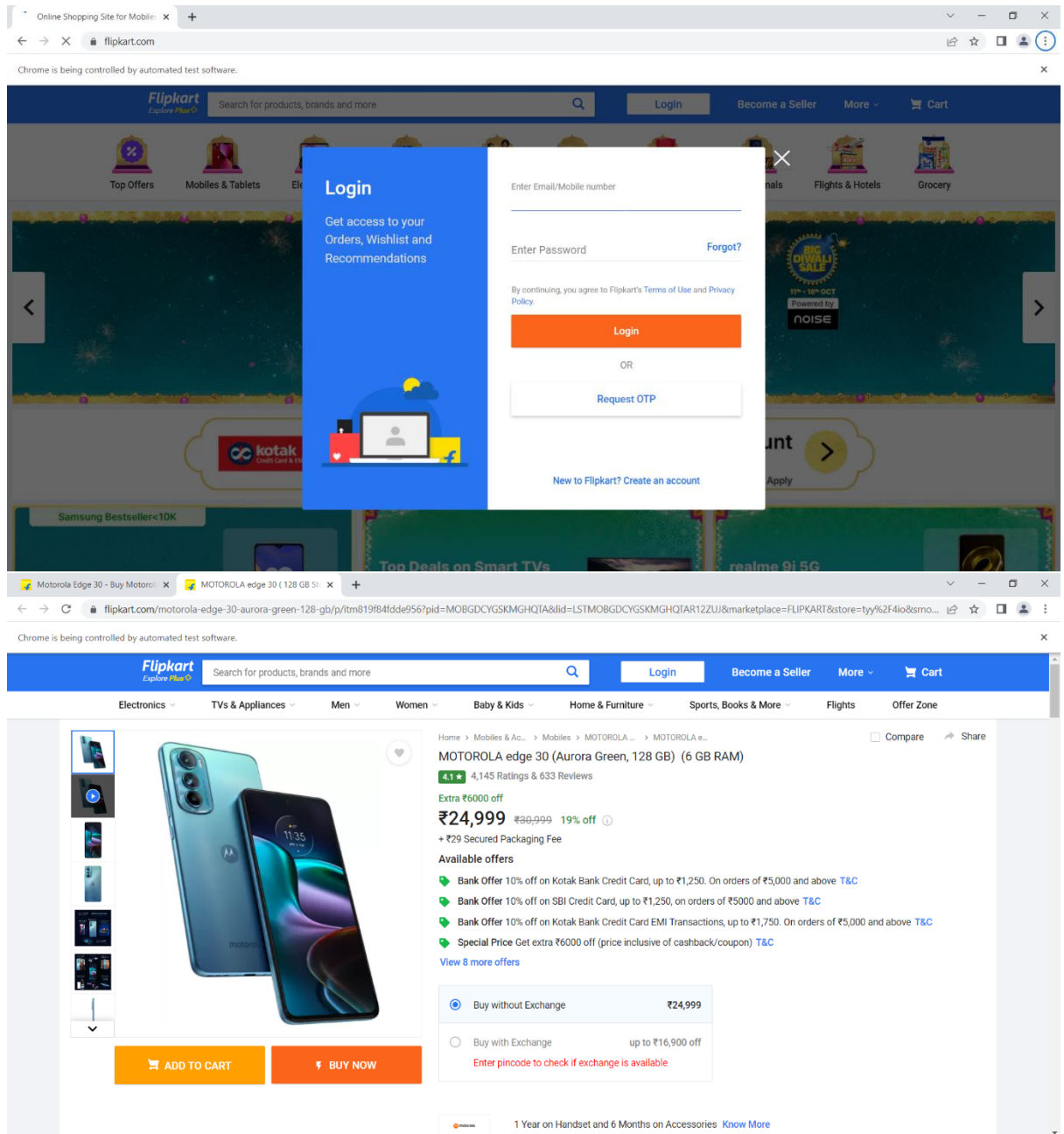


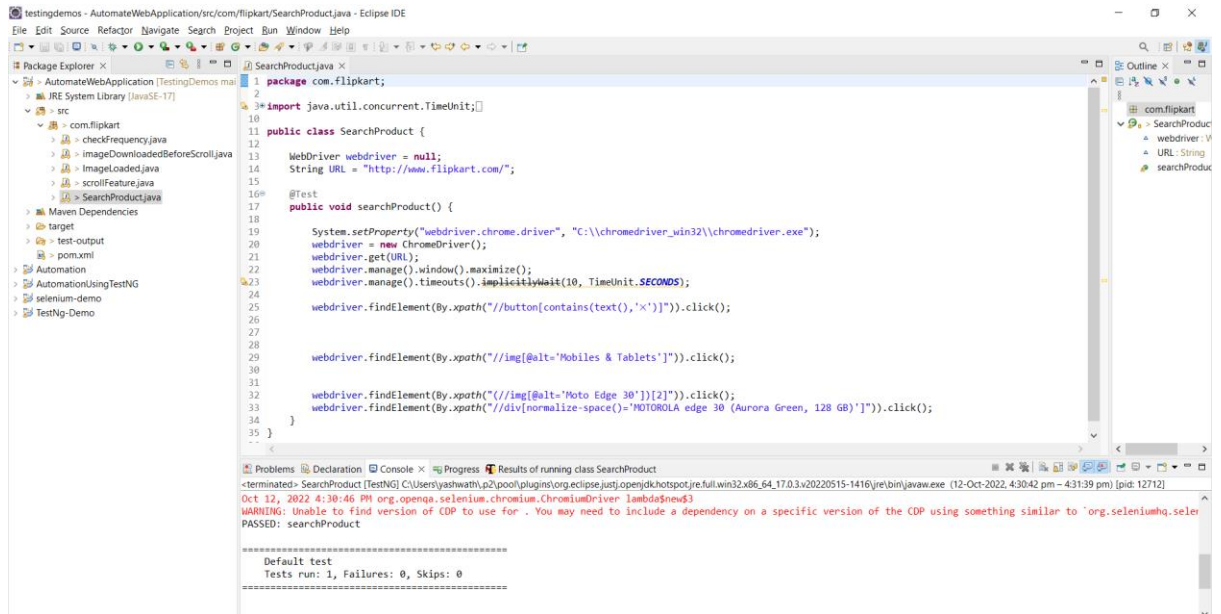
- Pom.xml



# Testing of Application Features:

## 1. Search Product :





---this feature is working Fine.

## 2. Scroll Feature :

Mobile Price List | Compare Mobiles

Chrome is being controlled by automated test software.

**Flipkart** Explore Plus 10

Search for products, brands and more

Login Become a Seller More Cart

Electronics TVs & Appliances Men Women Baby & Kids Health & Personal Care

**Filters** CLEAR ALL

Plus (F&Assured) 4★ & above

GST Invoice Available

**CATEGORIES**

Mobiles & Accessories

Mobiles

**PRICE**

Min to ₹30000+

**BRAND**

Search Brand

realme POCO Infinix SAMSUNG

Home > Mobiles & Accessories > Mobiles

Music Player Mobiles, Mobiles & Accessories, iOS Mobiles, Octa Core Mobiles, Android Mobiles, HD Resolutions Mobiles, 5G Mobiles, 4G Mobiles, NFC Mobiles

**Mobiles** (Showing 1 - 24 products of 2,555 products)

Sort By Popularity Price - Low to High Price - High to Low Newest First

**SAMSUNG Galaxy F13 (Waterfall Blue, 64 GB)**

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + 5MP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor
- 1 Year Warranty Provided By the Manufacturer from Date of Purchase

₹9,499 **Assured**

₹14,999 36% off

Free delivery

Top Discount on Sale

Upto ₹8,950 Off on Exchange

Add to Compare

**SAMSUNG Galaxy F13 (Sunrise Copper, 64 GB)**

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + 5MP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor

₹9,499 **Assured**

₹14,999 36% off

**SAMSUNG Galaxy F13 5G (Forest Green, 128 GB)**

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.26 cm (6.4 inch) HD+ Display
- 48MP + 8MP + 2MP + 2MP | 13MP Front Camera
- 6000 mAh Lithium-ion Battery
- MediaTek Helio G80 Processor
- 1 Year Warranty Provided by the Manufacturer from Date of Purchase

₹10,950 **Assured**

Free delivery

Top Discount on Sale

Upto ₹10,950 Off on Exchange

Add to Compare

**SAMSUNG Galaxy F12 (Sky Blue, 64 GB)**

4.3★ 2,93,542 Ratings & 23,367 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 512 GB
- 16.55 cm (6.515 inch) HD+ Display
- 48MP + 5MP + 2MP + 2MP | 8MP Front Camera
- 6000 mAh Lithium-ion Battery
- Exynos 850 Processor
- 1 Year Warranty Provided by the Manufacturer from Date of Purchase

₹10,499 **Assured**

₹12,999 19% off

Free delivery

Upto ₹9,800 Off on Exchange

Bank Offer

Add to Compare

**SAMSUNG Galaxy F23 5G (Forest Green, 128 GB)**

4.2★ 21,128 Ratings & 1,670 Reviews

- 4 GB RAM | 128 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + 8MP + 2MP | 8MP Front Camera
- 5000 mAh Lithium Ion Battery

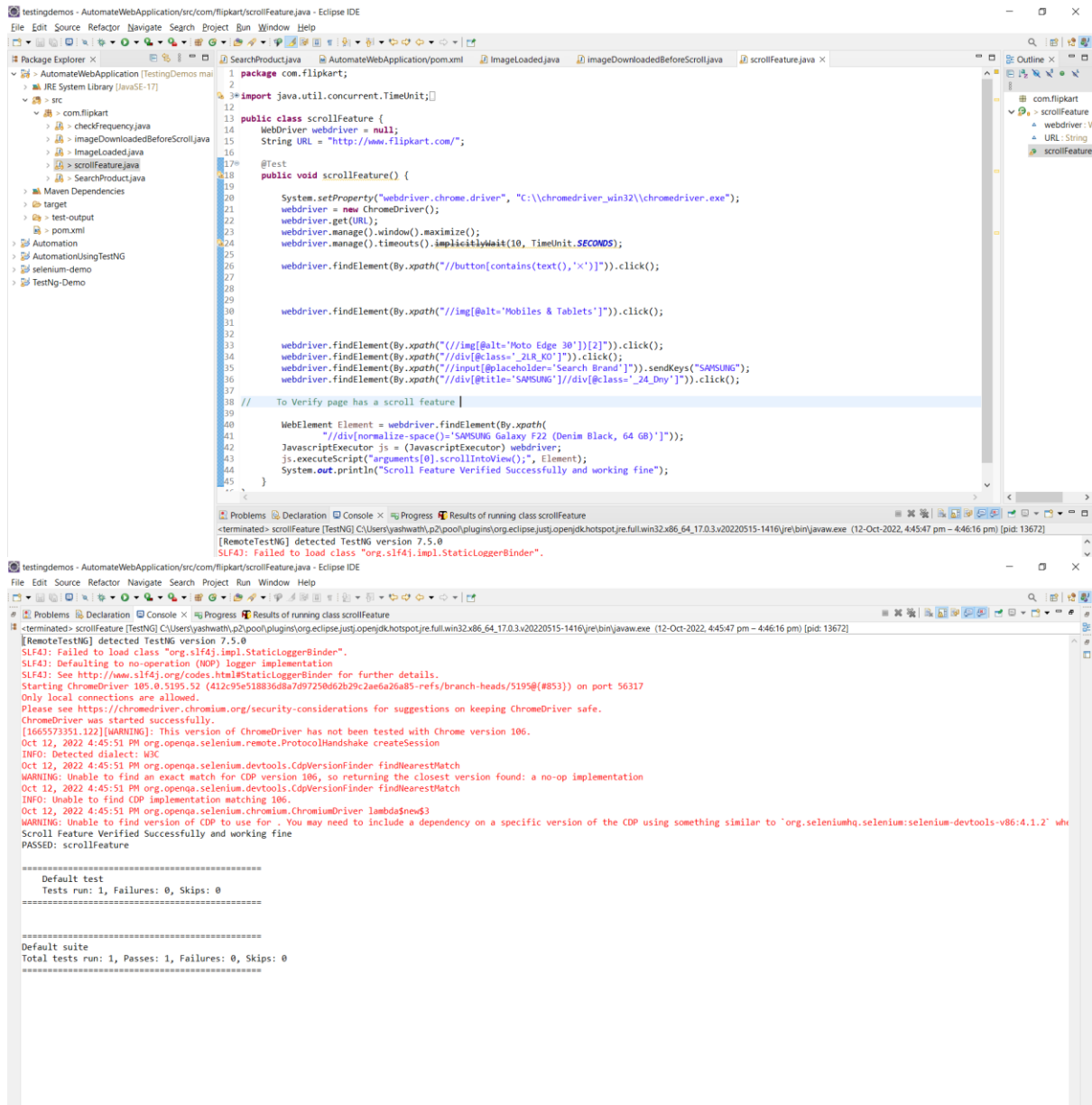
₹12,999 **Assured**

₹22,999 43% off

Free delivery

Top Discount on Sale

Upto ₹12,400 Off on Exchange



--The Scroll Feature is Working Fine.

### 3. Checking Frequency:

Online Shopping Site for Mobiles: x +

← → × flipkart.com

Chrome is being controlled by automated test software.

**Flipkart**  
Explore Plus

Search for products, brands and more

Login Become a Seller More ~ Cart

Top Offers Mobiles & Tablets

**Login**

Get access to your Orders, Wishlist and Recommendations

Enter Email/Mobile number

Enter Password [Forgot?](#)

By continuing, you agree to Flipkart's Terms of Use and Privacy Policy.

Login

OR

[Request OTP](#)

New to Flipkart? [Create an account](#)

**Mobile Price List | Compare Mobiles**

← → × flipkart.com/mobiles/pr?sid=ty%2C4io&p%5B%5D=facets.fulfilled\_by%255B%25D%3DPlus%2B%2528FAssured%2529&ctx=eyJYXJkQ29udGV4dCI6eyJhdHRyaWJ1dGVzZjlp7InRpdGxlljp7Im11bH...

Chrome is being controlled by automated test software.

**Flipkart**  
Explore Plus

Search for products, brands and more

Login Become a Seller More ~ Cart

**2**

- 16.55 cm (6.515 inch) HD+
- 48MP + 5MP + 2MP + 2MP
- 6000 mAh Lithium-ion Battery
- Exynos 850 Processor
- 1 Year Warranty Provided by the Manufacturer from Date of Purchase

☐ Add to Compare

**SAMSUNG Galaxy F23 5G (Forest Green, 128 GB)**

4.2+ 21,128 Ratings & 1,670 Reviews

- 4 GB RAM | 128 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + 8MP + 2MP | 8MP Front Camera
- 5000 mAh Lithium Ion Battery
- Qualcomm Snapdragon 750G Processor
- 1 Year Warranty Provided by the Manufacturer from Date of Purchase

☐ Add to Compare

**SAMSUNG Galaxy F12 (Sea Green, 64 GB)**

4.3+ 2,93,542 Ratings & 23,367 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 512 GB
- 16.55 cm (6.515 inch) HD+ Display
- 48MP + 5MP + 2MP + 2MP | 8MP Front Camera
- 6000 mAh Lithium-ion Battery

Upto **₹9,800** Off on Exchange  
**Bank Offer**

**₹12,999** **Assured**

₹22,999 43% off  
Free delivery  
Top Discount on Sale  
Upto **₹12,400** Off on Exchange

**₹10,499** **Assured**

₹12,999 19% off  
Free delivery  
Upto **₹9,800** Off on Exchange  
**Bank Offer**



The screenshot displays the Eclipse IDE interface. The main editor shows the `checkFrequency.java` file, which is a JUnit test class using Selenium WebDriver to interact with the Flipkart website. The code includes imports for `com.flipkart` and `java.util.concurrent.TimeUnit`. The `checkFrequency()` method performs several actions: it sets the Chrome driver path, maximizes the browser window, waits for 10 seconds, clicks on the 'Mobiles & Tablets' category, clicks on a 'Moto Edge 30' product image, clicks on the '2LR\_K0' brand filter, sends the key 'SAMSUNG' to the search input, and clicks on the 'SAMSUNG\_24\_Dny' product. It then scrolls the page by 5428 pixels and prints a success message.

The bottom of the IDE shows the 'Results of running class checkFrequency' in the console. The output indicates that the test passed successfully. It also shows some warnings from Selenium and RemoteTestNG, such as 'Unable to find version of CDP to use for . You may need to include a dependency on a specific version of the CDP using something similar to 'org.seleniumhq.selenium:selenium-devtools-v86:4.1.2''.

```
1 package com.flipkart;
2
3 import java.util.concurrent.TimeUnit;
4
5
6
7
8
9
10
11
12 public class checkFrequency {
13     WebDriver webDriver = null;
14     String URL = "http://www.flipkart.com/";
15
16
17     @Test
18     public void checkFrequency() {
19         System.setProperty("webdriver.chrome.driver", "C:\\chromedriver_win32\\chromedriver.exe");
20         webDriver = new ChromeDriver();
21         webDriver.get(URL);
22         webDriver.manage().window().maximize();
23         webDriver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
24
25         webDriver.findElement(By.xpath("//button[contains(text(),'×')]")).click();
26         webDriver.findElement(By.xpath("//img[@alt='Mobiles & Tablets']")).click();
27
28
29         webDriver.findElement(By.xpath("//img[@alt='Moto Edge 30']")).click();
30         webDriver.findElement(By.xpath("//div[@class='2LR_K0']")).click();
31         webDriver.findElement(By.xpath("//input[@placeholder='Search Brand']")).sendKeys("SAMSUNG");
32         webDriver.findElement(By.xpath("//div[@title='SAMSUNG']/div[@class='_24_Dny']")).click();
33
34
35         // Check the frequency at which the content will be refreshed while scrolling
36         webDriver.navigate().refresh();
37         JavascriptExecutor js = (JavascriptExecutor) webDriver;
38         js.executeScript("window.scrollTo(0,5428)", "");
39         System.out.println("Contents refreshed successfully");
40     }
41 }
42
43
```

Results of running class checkFrequency  
-terminated- checkFrequency [TestNG] C:\Users\yashwath.p2\pool\plugins\org.eclipse.justopenjdk.hotspot.jre.full.win32.x86\_64.17.0.3.v20220515-1416\jre\bin\javaw.exe (12-Oct-2022, 4:49:15 pm - 4:50:01 pm) [pid: 14852]  
[RemoteTestNG] detected TestNG version 7.5.0  
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".  
SLF4J: Defaulting to no-operation (NOP) logger implementation  
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.  
Starting ChromeDriver 105.0.5195.52 (412c95e518836d8a7d9725b062b29c2a66a26a85-refs/branch-heads/5195@#853) on port 58643  
Only local connections are allowed.  
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.  
ChromeDriver was started successfully.  
[1665573559.086][WARNING]: This version of ChromeDriver has not been tested with Chrome version 106.  
Oct 12, 2022 4:49:19 PM org.openqa.selenium.remote.ProtocolHandshake createSession  
INFO: Detected dialect: W3C  
Oct 12, 2022 4:49:19 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch  
WARNING: Unable to find an exact match for CDP version 106, so returning the closest version found: a no-op implementation  
Oct 12, 2022 4:49:19 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch  
INFO: Unable to find CDP implementation matching 106.  
Oct 12, 2022 4:49:19 PM org.openqa.selenium.chromium.ChromiumDriver lambda\$new\$3  
WARNING: Unable to find version of CDP to use for . You may need to include a dependency on a specific version of the CDP using something similar to 'org.seleniumhq.selenium:selenium-devtools-v86:4.1.2' wh  
Contents refreshed successfully  
PASSED: checkFrequency  
  
Default test  
Tests run: 1, Failures: 0, Skips: 0  
  
Default suite  
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

--Page is loading At Good Frequency rate

## 4. Image Loading

Online Shopping Site for Mobiles | X +

← → X flipkart.com

Chrome is being controlled by automated test software.

**Flipkart**  
Explore Plus

Search for products, brands and more

Login Become a Seller More Cart

Top Offers Mobiles & Tablets

**Login**  
Get access to your Orders, Wishlist and Recommendations

Enter Email/Mobile number

Enter Password [Forgot?](#)

By continuing, you agree to Flipkart's Terms of Use and Privacy Policy.

Login

OR

[Request OTP](#)

New to Flipkart? [Create an account](#)

POCO M4 Pro AM  
Just ₹11,74  
AMOLED Phone  
64MP Triple Cam

Samsung Bestseller <10K

Top Deals on Smart TVs

Mobile Price List | Compare Mo... X +

← → C flipkart.com/mobiles/pr?sid=tyy%2C4io&p%5B%5D=facets.fulfilled\_by%2525B%25D%3DPlus%252528FAssured%2529&ctx=eyJYXJkQ29udGV4dCI6eyJhdHRyaW11dGVzVjlp7InRpdGxlljp7Im11bH...

Chrome is being controlled by automated test software.

**Flipkart**  
Explore Plus

Search for products, brands and more

Login Become a Seller More Cart

Electronics TVs & Appliances Men Women Baby & Kids Home & Furniture Sports, Books & More Flights Offer Zone

**Filters** CLEAR ALL

Plus (Assured) 4★ & above

GST Invoice Available

SHOW MORE

**CATEGORIES**

< Mobiles & Accessories

Mobiles

**PRICE**

Min to ₹30000+

**BRAND**

Clear all

SAMSUNG

SAMSUNG

35 MORE

Home > Mobiles & Ac... > Mobiles

Music Player Mobiles Mobiles & Accessories iOS Mobiles Octa Core Mobiles Android Mobiles HD Recording Mobiles Smartphones Mobiles Feature Phones Mobiles NFC Mobiles

**Mobiles** (Showing 1 – 24 products of 184 products)

Sort By [Popularity](#) Price – Low to High Price – High to Low Newest First

**SAMSUNG Galaxy F13 (Waterfall Blue, 64 GB)**

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + 5MP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor
- 1 Year Warranty Provided By the Manufacturer from Date of Purchase

₹9,499 ~~₹14,999~~ 36% off

Free delivery

Top Discount on Sale

Upto ₹8,950 Off on Exchange

☐ Add to Compare

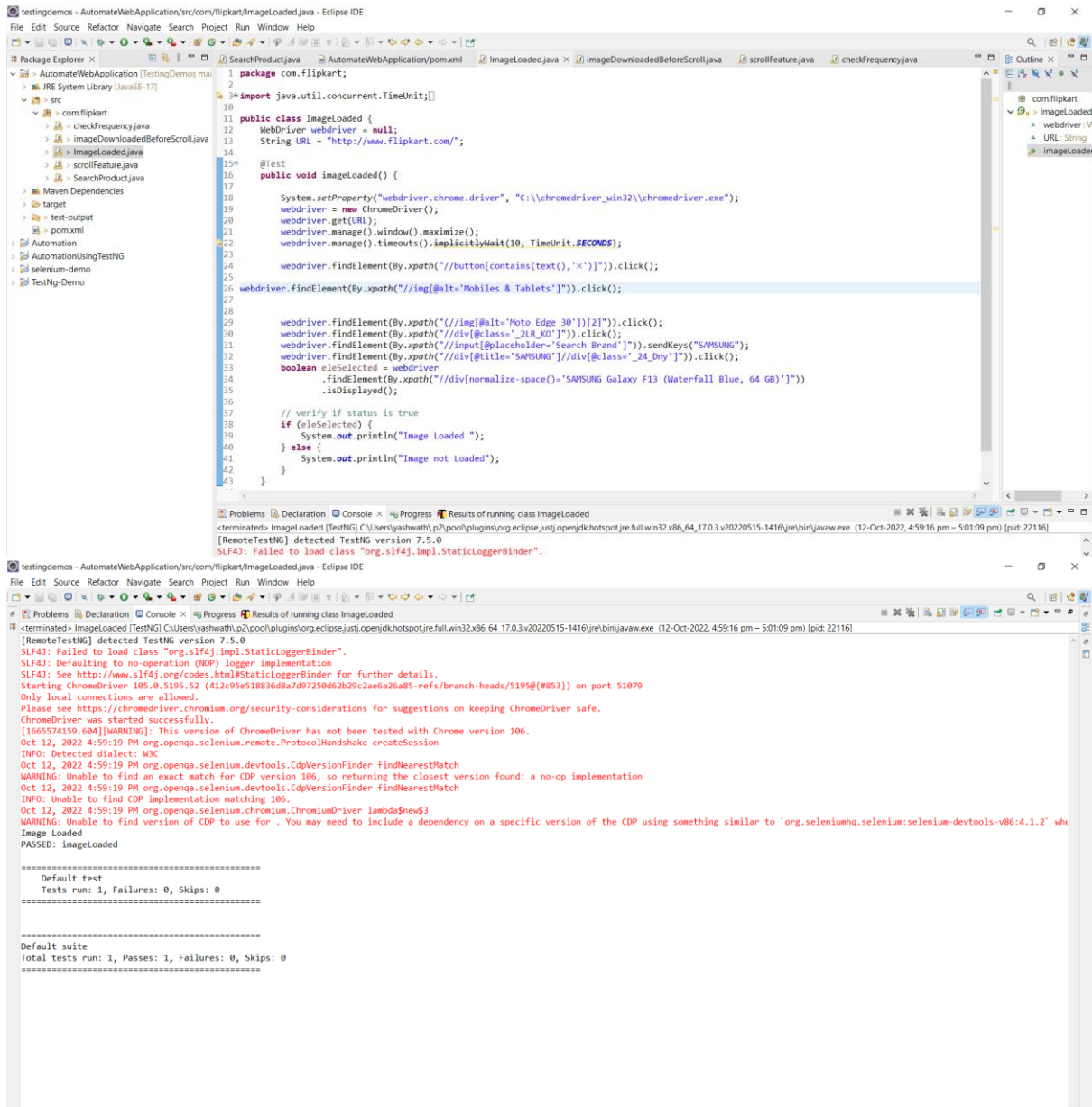
**SAMSUNG Galaxy F13 (Sunrise Copper, 64 GB)**

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + 5MP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor

₹9,499 ~~₹14,999~~ 36% off





--This Feature is working

## 5. Verify that the image is downloaded just before the user scrolls to its position and gets displayed in time

Mobile Price List | Compare Mobiles

Chrome is being controlled by automated test software.

**Flipkart** Search for products, brands and more Login Become a Seller More Cart

Home > Mobiles & Accessories > Mobiles

Music Player Mobiles, Mobiles & Accessories, iOS Mobiles, Octa Core Mobiles, Android Mobiles, HD Recording Mobiles, Smartphones Mobiles, Feature Phones Mobiles, NFC Mobiles

Mobiles (Showing 1 – 24 products of 2,555 products)

Sort By Popularity Price – Low to High Price – High to Low Newest First

**Filters** CLEAR ALL

- Plus (FAssured)
- 4★ & above
- GST Invoice Available

**CATEGORIES**

- Mobiles & Accessories
- Mobiles

**PRICE**

Min to ₹30000+

**BRAND**

- Search Brand
- realme
- POCO
- Infinix
- SAMSUNG

**SAMSUNG Galaxy F13 (Waterfall Blue, 64 GB)**

₹9,499 **Assured**

₹14,999 36% off

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + SMP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor
- 1 Year Warranty Provided By the Manufacturer from Date of Purchase

Add to Compare

**SAMSUNG Galaxy F13 (Sunrise Copper, 64 GB)**

₹9,499 **Assured**

₹14,999 36% off

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + SMP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor

Add to Compare

Mobile Price List | Compare Mobiles

Chrome is being controlled by automated test software.

**Flipkart** Search for products, brands and more Login Become a Seller More Cart

Electronics TVs & Appliances Men Women Baby & Kids Home & Furniture Sports, Books & More Flights Offer Zone

Home > Mobiles & Accessories > Mobiles

Music Player Mobiles, Mobiles & Accessories, iOS Mobiles, Octa Core Mobiles, Android Mobiles, HD Recording Mobiles, Smartphones Mobiles, Feature Phones Mobiles, NFC Mobiles

Mobiles (Showing 1 – 24 products of 203 products)

Sort By Popularity Price -- Low to High Price -- High to Low Newest First

**Filters** CLEAR ALL

- Plus (FAssured)
- 4★ & above
- GST Invoice Available

SHOW MORE

**CATEGORIES**

- Mobiles & Accessories
- Mobiles

**PRICE**

Min to ₹30000+

**BRAND**

- Clear all
- SAMSUNG
- SAMSUNG
- 35 MORE

**SAMSUNG Galaxy F13 (Waterfall Blue, 64 GB)**

₹9,499 **Assured**

₹14,999 36% off

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + SMP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor
- 1 Year Warranty Provided By the Manufacturer from Date of Purchase

Add to Compare

**SAMSUNG Galaxy F13 (Sunrise Copper, 64 GB)**

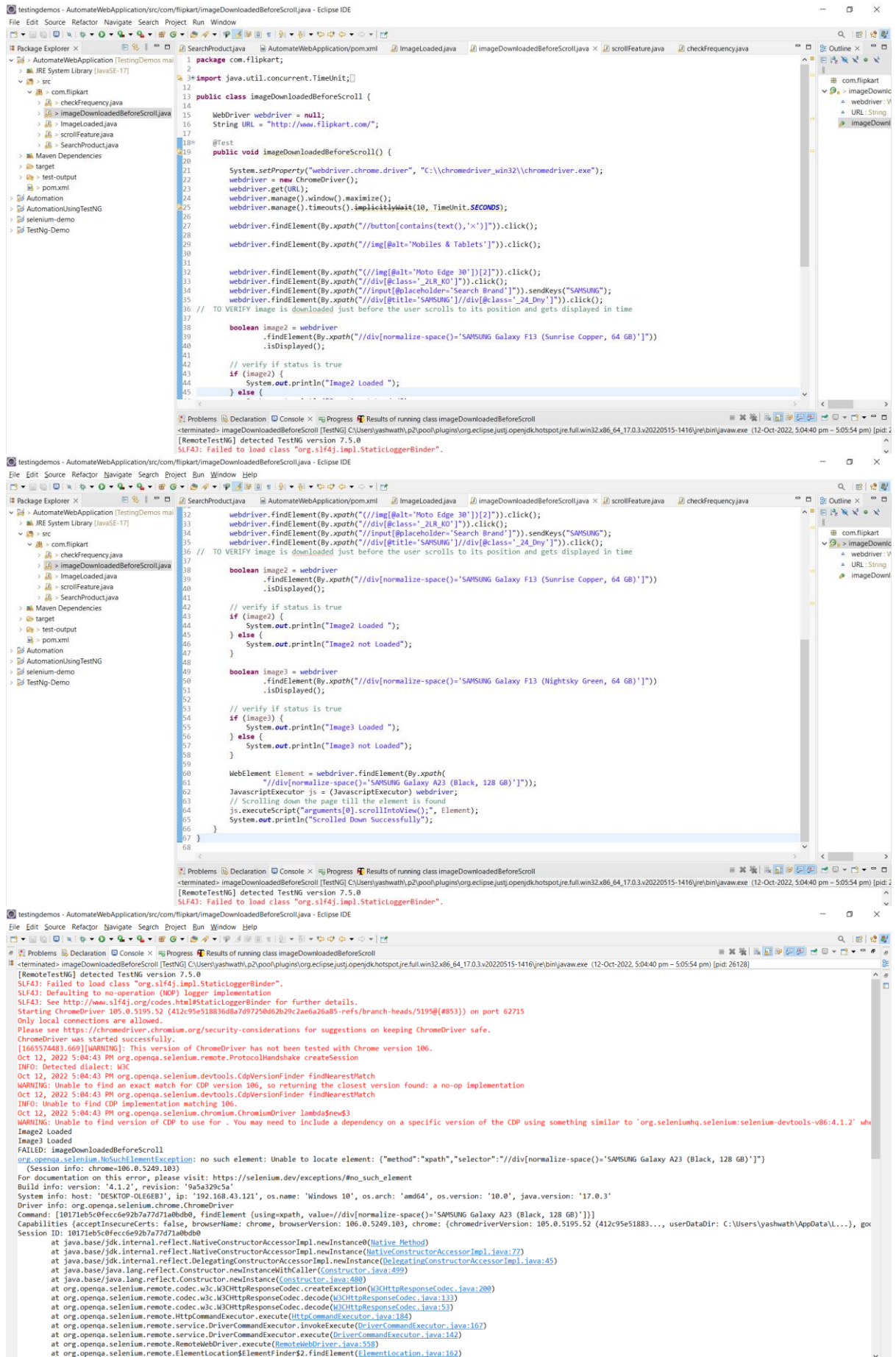
₹9,499 **Assured**

₹14,999 36% off

4.4★ 46,482 Ratings & 2,292 Reviews

- 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB
- 16.76 cm (6.6 inch) Full HD+ Display
- 50MP + SMP + 2MP | 8MP Front Camera
- 6000 mAh Lithium Ion Battery
- Exynos 850 Processor

Add to Compare



All the Features of flipkart are tested . Working fine Chrome web Browser.

Here is my git hub link:

<https://github.com/yashwanthNagaraboina/htttt.git>