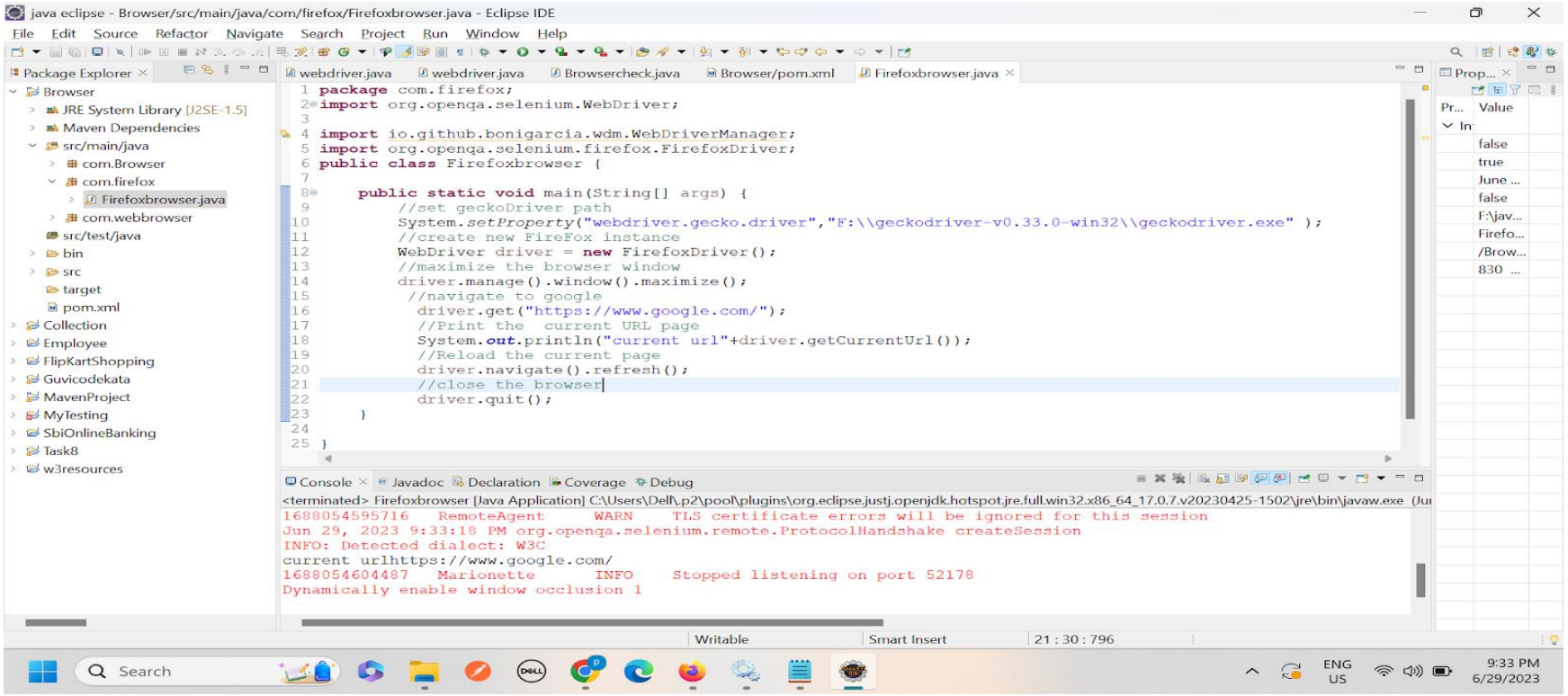
Task 16- ***Selenium Locators***

Q1. write selenium script →open Firefox browser→maximizes the browser window→ navigates to "http://google.com" →prints the URL of the current page→ reloads the page →and closes the browser.

Code:

```
package com.firefox;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.firefox.FirefoxDriver;
public class Firefoxbrowser {
	public static void main(String[] args) {
		//set geckoDriver path
		System.setProperty("webdriver.gecko.driver","F:\\geckodriver-v0.33.0-win32\\geckodriver.exe" );
		//create new FireFox instance
		WebDriver driver = new FirefoxDriver();
		//maximize the browser window
		driver.manage().window().maximize();
	 //navigate to google
	 driver.get("https://www.google.com/");
	 //Print the current URL page
	 System.out.println("current url"+driver.getCurrentUrl());
	 //Reload the current page
	 driver.navigate().refresh();
	 //close the browser
	 driver.quit();
	}
}
```


java eclipse - Browser/src/main/java/com/firefox/Firefoxbrowser.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Browser
JRE System Library [J2SE-1.5]
Maven Dependencies
src/main/java
com.Browser
com.firefox
Firefoxbrowser.java
com.webbrowser
src/test/java
bin
src
target
pom.xml
Collection
Employee
FlipKartShopping
Guvicodekata
MavenProject
MyTesting
SbiOnlineBanking
Task8
w3resources
webdriver.java
webdriver.java
Browsercheck.java
Browser/pom.xml
Firefoxbrowser.java
1 package com.firefox;
2 import org.openqa.selenium.WebDriver;
3
4 import io.github.bonigarcia.wdm.WebDriverManager;
5 import org.openqa.selenium.firefox.FirefoxDriver;
6 public class Firefoxbrowser {
7
8 public static void main(String[] args) {
9 //set geckoDriver path
10 System.setProperty("webdriver.gecko.driver","F:\\geckodriver-v0.33.0-win32\\geckodriver.exe");
11 //create new FireFox instance
12 WebDriver driver = new FirefoxDriver();
13 //maximize the browser window
14 driver.manage().window().maximize();
15 //navigate to google
16 driver.get("https://www.google.com/");
17 //Print the current URL page
18 System.out.println("current url"+driver.getCurrentUrl());
19 //Reload the current page
20 driver.navigate().refresh();
21 //close the browser
22 driver.quit();
23 }
24
25 }
Prop...
Pr... Value
In
false
true
June ...
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Firefo...
/Brow...
830 ...
Console Javadoc Declaration Coverage Debug
<terminated> Firefoxbrowser [Java Application] C:\Users\Dell\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe
1688054595716 RemoteAgent WARN TLS certificate errors will be ignored for this session
Jun 29, 2023 9:33:18 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
current urlhttps://www.google.com/
1688054604487 Marionette INFO Stopped listening on port 52178
Dynamically enable window occlusion 1
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Search
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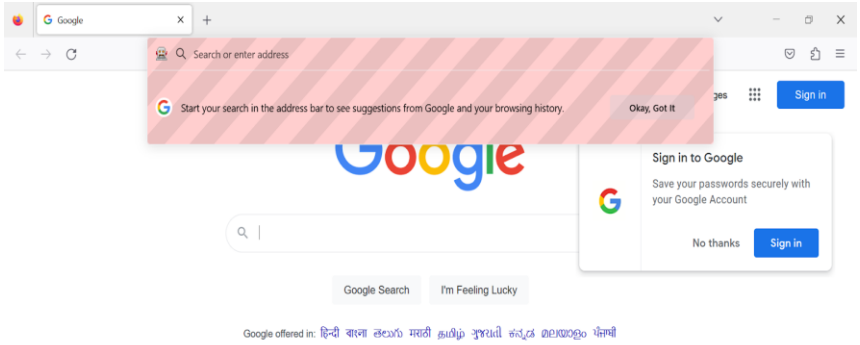
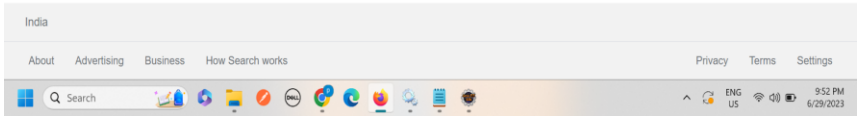
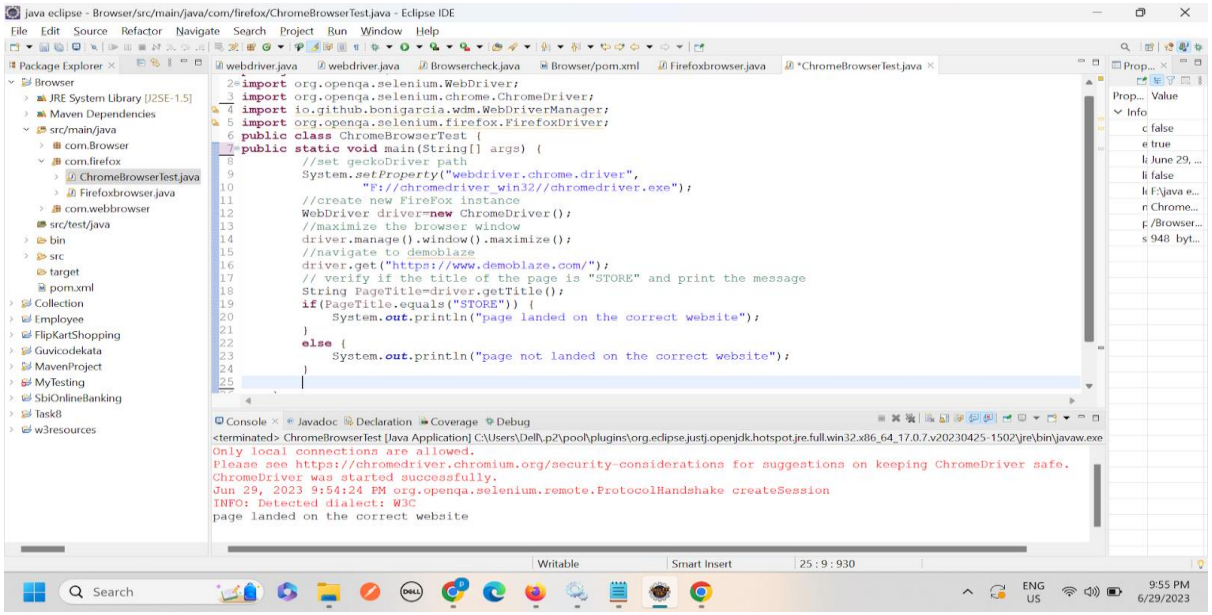


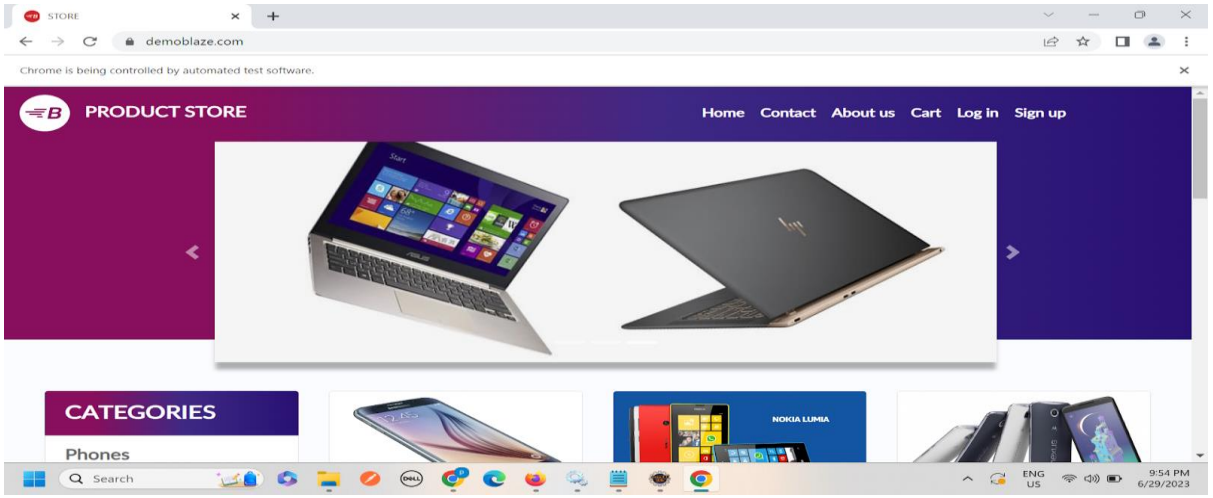


2. Write a Selenium Java script →opens the Chrome browser→ navigates to "https://www.demoblaze.com/" →maximizes the browser window
→verifies if the title of the page is "STORE" →and prints "Page landed on correct website" if the title matches, else prints "Page not landed on correct website".
Code:

```
package com.firefox;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.firefox.FirefoxDriver;
public class ChromeBrowserTest {
	public static void main(String[] args) {
		//set geckoDriver path
		System.setProperty("webdriver.chrome.driver",
				"F://chromedriver_win32//chromedriver.exe");
		//create new FireFox instance
		WebDriver driver=new ChromeDriver();
		//maximize the browser window
		driver.manage().window().maximize();
		//navigate to demoblaze
```

```
		driver.get("https://www.demoblaze.com/");
		// verify if the title of the page is "STORE" and print the message
		String PageTitle=driver.getTitle();
		if(PageTitle.equals("STORE")) {
			System.out.println("page landed on the correct website");
		}
		else {
			System.out.println("page not landed on the correct website");
		}

	}
}
```



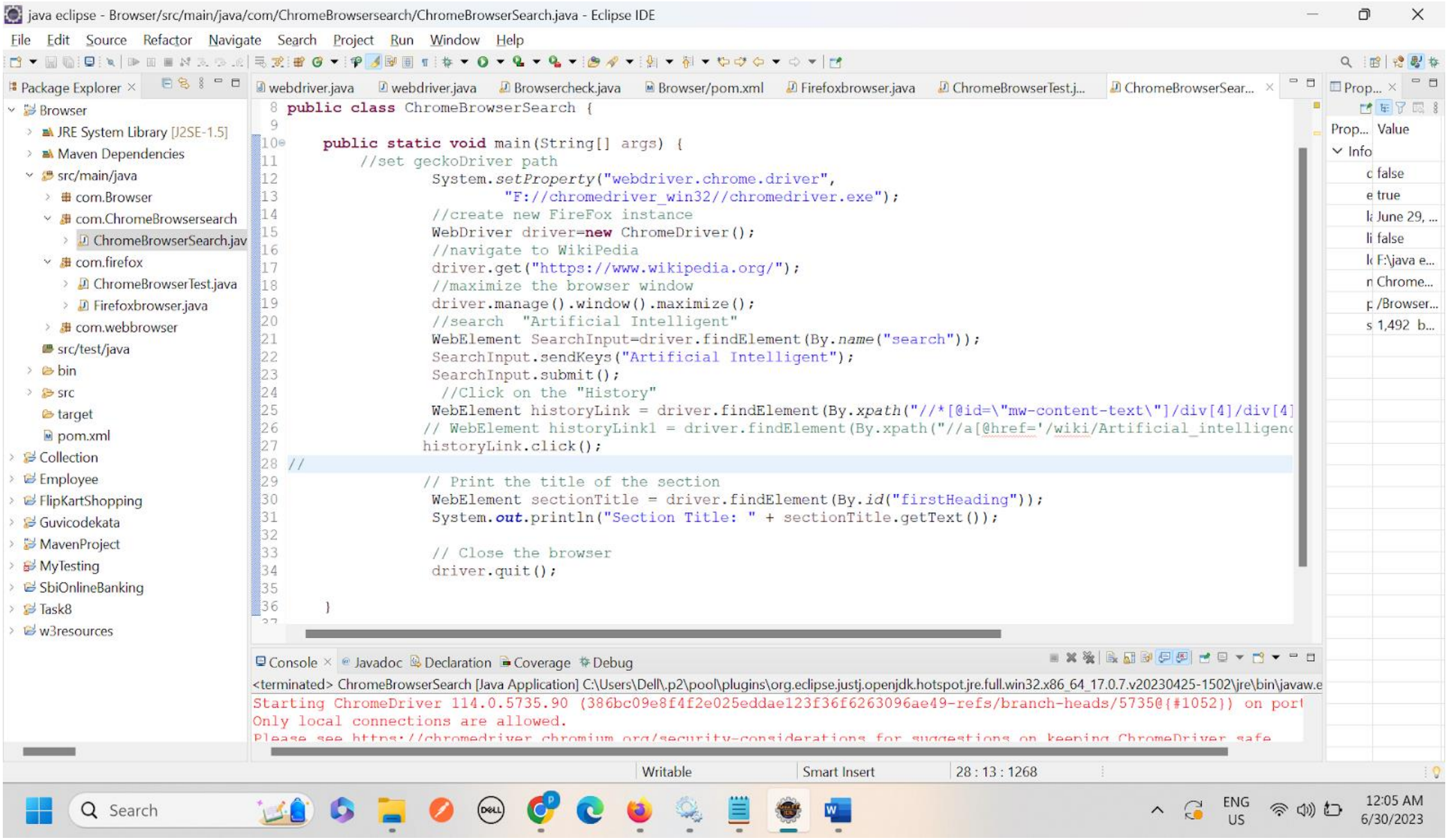


3. Write a Selenium Java script →opens the chrome browser→navigates to "https://www.wikipedia.org/" →maximizes the browser window→searches for the query "Artificial Intelligence", clicks on the "History" section in the search results, and prints the title of the section.

Code:

```
package com.ChromeBrowsersearch;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.firefox.FirefoxDriver;
public class ChromeBrowserSearch {

public static void main(String[] args) {
//set geckoDriver path
System.setProperty("webdriver.chrome.driver",
"F://chromedriver_win32//chromedriver.exe");
//create new FireFox instance
WebDriver driver=new ChromeDriver();
//navigate to WikiPedia
driver.get("https://www.wikipedia.org/");
```

```
//maximize the browser window
driver.manage().window().maximize();
//search  "Artificial Intelligent"
WebElement SearchInput=driver.findElement(By.name("search"));
SearchInput.sendKeys("Artificial Intelligent");
SearchInput.submit();
 //Click on the "History"
        WebElement historyLink = driver.findElement(By.xpath("//*[@id=\"mw-content-
text\"]/div[4]/div[4]/ul/li[1]/table/tbody/tr/td[2]/div[1]/a"));
       // WebElement historyLink1 = driver.findElement(By.xpath("//a[@href='/wiki/Artificial_intelligence']")).click();
       historyLink.click();
//
       // Print the title of the section
        WebElement sectionTitle = driver.findElement(By.id("firstHeading"));
        System.out.println("Section Title: " + sectionTitle.getText());

        // Close the browser
        //driver.quit();

}

}
```


java eclipse - Browser/src/main/java/com/ChromeBrowsersearch/ChromeBrowserSearch.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Browser
JRE System Library [J2SE-1.5]
Maven Dependencies
src/main/java
com.Browser
com.ChromeBrowsersearch
ChromeBrowserSearch.jav
com.firefox
ChromeBrowserTest.java
Firefoxbrowser.java
com.webbrowser
src/test/java
bin
src
target
pom.xml
Collection
Employee
FlipKartShopping
Guvicodekata
MavenProject
MyTesting
SbiOnlineBanking
Task8
w3resources
webdriver.java
webdriver.java
Browsercheck.java
Browser/pom.xml
Firefoxbrowser.java
ChromeBrowserTest.j...
ChromeBrowserSear...
8 public class ChromeBrowserSearch {
9
10 public static void main(String[] args) {
11 //set geckoDriver path
12 System.setProperty("webdriver.chrome.driver",
13 "F://chromedriver_win32//chromedriver.exe");
14 //create new FireFox instance
15 WebDriver driver=new ChromeDriver();
16 //navigate to WikiPedia
17 driver.get("https://www.wikipedia.org/");
18 //maximize the browser window
19 driver.manage().window().maximize();
20 //search "Artificial Intelligent"
21 WebElement SearchInput=driver.findElement(By.name("search"));
22 SearchInput.sendKeys("Artificial Intelligent");
23 SearchInput.submit();
24 //Click on the "History"
25 WebElement historyLink = driver.findElement(By.xpath("//*[@id=\"mw-content-text\"]/div[4]/div[4]
26 // WebElement historyLink1 = driver.findElement(By.xpath("//a[@href='/wiki/Artificial_intelligenc
27 historyLink.click();
28 //
29 // Print the title of the section
30 WebElement sectionTitle = driver.findElement(By.id("firstHeading"));
31 System.out.println("Section Title: " + sectionTitle.getText());
32
33 // Close the browser
34 driver.quit();
35
36 }
Prop...
Prop... Value
Info
c false
e true
l June 29, ...
li false
l F:\java e...
n Chrome...
p /Browser...
s 1,492 b...
Console
Javadoc
Declaration
Coverage
Debug
<terminated> ChromeBrowserSearch [Java Application] C:\Users\Dell\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.e
Starting ChromeDriver 114.0.5735.90 (386bc09e8f4f2e025eddae123f36f6263096ae49-refs/branch-heads/5735@{#1052}) on port
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe
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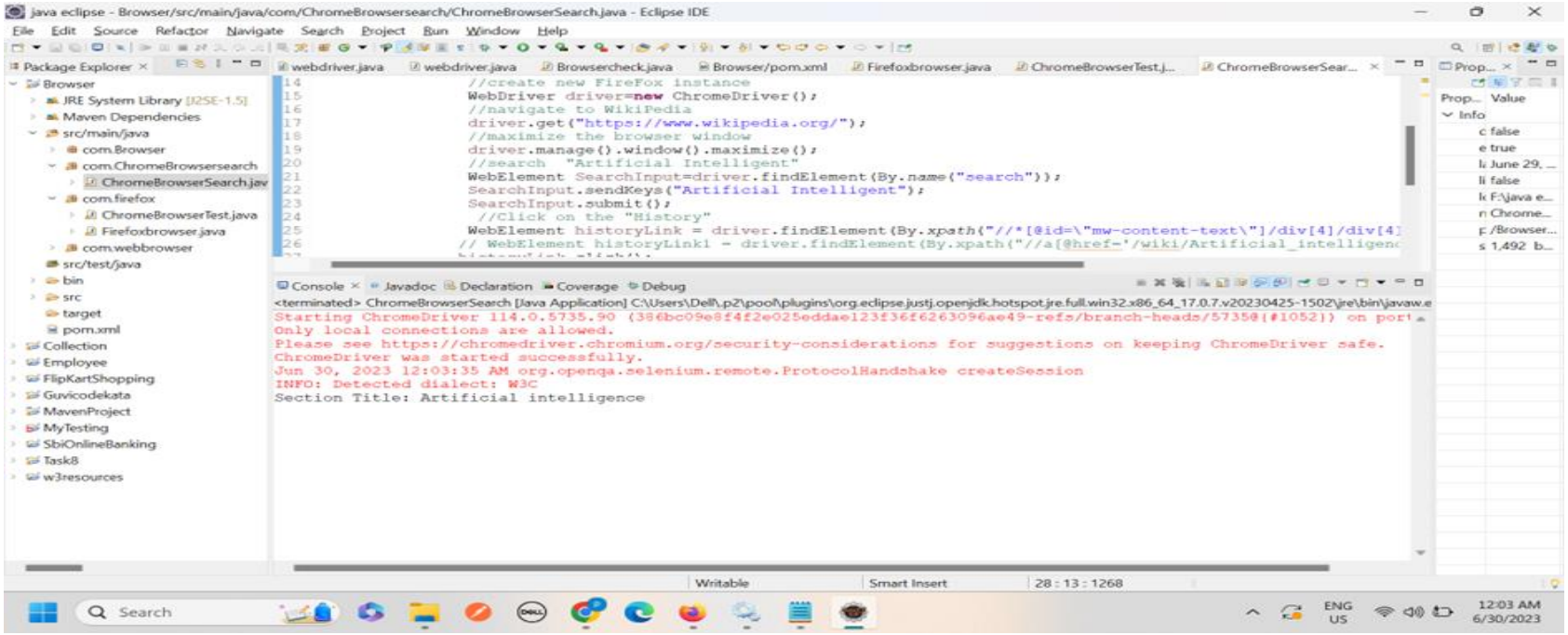
java eclipse - Browser/src/main/java/com/ChromeBrowsersearch/ChromeBrowserSearch.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Browser
JRE System Library [J2SE-1.5]
Maven Dependencies
src/main/java
com.Browser
com.ChromeBrowsersearch
ChromeBrowserSearch.jav
com.firefox
ChromeBrowserTest.java
Firefoxbrowser.java
com.webbrowser
src/test/java
bin
src
target
pom.xml
Collection
Employee
FlipKartShopping
Guvicodekata
MavenProject
MyTesting
SbiOnlineBanking
Task8
w3resources
webdriver.java
webdriver.java
Browsercheck.java
Browser/pom.xml
Firefoxbrowser.java
ChromeBrowserTest.j...
ChromeBrowserSear...
//create new FireFox instance
WebDriver driver=new ChromeDriver();
//navigate to WikiPedia
driver.get("https://www.wikipedia.org/");
//maximize the browser window
driver.manage().window().maximize();
//search "Artificial Intelligent"
WebElement SearchInput=driver.findElement(By.name("search"));
SearchInput.sendKeys("Artificial Intelligent");
SearchInput.submit();
//Click on the "History"
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// WebElement historyLink1 = driver.findElement(By.xpath("//a[@href='/wiki/Artificial_intelligenc
Console Javadoc Declaration Coverage Debug
<terminated> ChromeBrowserSearch [Java Application] C:\Users\Dell\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.e
Starting ChromeDriver 114.0.5735.90 (386bc09e8f4f2e025eddae123f36f6263096ae49-refs/branch-heads/5735@{#1052}) on port
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Jun 30, 2023 12:03:35 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Section Title: Artificial intelligence
Prop... Value
Info
c false
e true
l June 29, ...
li false
l F:\java e...
n Chrome...
p /Browser...
s 1,492 b...
Writable
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6/30/2023

Artificial intelligence - Wikipedia

en.wikipedia.org/wiki/Artificial_intelligence

Chrome is being controlled by automated test software.

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Artificial intelligence

139 languages

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"AI" redirects here. For other uses, see AI (disambiguation), Artificial intelligence (disambiguation), and Intelligent agent.

Artificial intelligence (**AI**) is intelligence—perceiving, synthesizing, and inferring information—demonstrated by computers, as opposed to intelligence displayed by humans or by other animals. "Intelligence" encompasses the ability to learn and to reason, to generalize, and to infer meaning.[1] Example tasks in which this is done include speech recognition, computer vision, translation between (natural) languages, as well as other mappings of inputs.[2]

AI applications include advanced web search engines (e.g., Google Search), recommendation systems (used by YouTube, Amazon, and Netflix), understanding human speech (such as Siri and Alexa), self-driving cars (e.g., Waymo), generative or creative tools (ChatGPT and AI art), automated decision-making, and competing at the highest level in strategic game systems (such as chess and Go).[3] This has changed the purchasing process, being the AI application functions a mediator

Part of a series on

Artificial intelligence

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Search

ENG
US

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