**CA – 2 727721EUIT129 RIZWAN MS**

**Code:**

**1.**

package com.selenium.CC\_2;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

import org.testng.annotations.BeforeMethod;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

import org.testng.Assert;

import org.testng.annotations.AfterMethod;

public class Tc\_001 {

WebDriver driver;

@BeforeMethod

public void setUp() throws InterruptedException {

WebDriverManager.chromedriver().setup();

ChromeOptions co=new ChromeOptions();

co.addArguments("--remote-allow-origins=\*");

driver=new ChromeDriver(co);

driver.get("https://www.trivago.in/");

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

Thread.sleep(1000);

}

@Test(priority = 1)

public void testLocationEntry() {

WebElement locationInput = driver.findElement(By.id("querytext"));

locationInput.sendKeys("New Delhi");

Assert.assertEquals(locationInput.getAttribute("value"), "New Delhi");

}

@Test(priority = 2)

public void testCheckInCheckOutSelection() {

WebElement checkInDate = driver.findElement(By.cssSelector("button[aria-label='Check-in date input field']"));

checkInDate.click();

WebElement checkInDateInput = driver.findElement(By.cssSelector("div[data-testid='datepicker-day-2022-05-02']"));

checkInDateInput.click();

WebElement checkOutDate = driver.findElement(By.cssSelector("button[aria-label='Check-out date input field']"));

checkOutDate.click();

WebElement checkOutDateInput = driver.findElement(By.cssSelector("div[data-testid='datepicker-day-2022-05-03']"));

checkOutDateInput.click();

Assert.assertEquals(checkInDate.getText(), "2");

Assert.assertEquals(checkOutDate.getText(), "3");

}

@Test(priority = 3)

public void testRoomsAndGuestsSelection() {

WebElement roomsInput = driver.findElement(By.id("select-num-rooms-2"));

roomsInput.click();

WebElement roomOption = driver.findElement(By.cssSelector("button[data-value='1']"));

roomOption.click();

WebElement guestsInput = driver.findElement(By.id("select-num-guests-1"));

guestsInput.click();

WebElement guestOption = driver.findElement(By.cssSelector("button[data-value='2']"));

guestOption.click();

Assert.assertEquals(roomsInput.getText(), "1 Room");

Assert.assertEquals(guestsInput.getText(), "2 Guests");

}

@Test(priority = 4)

public void testPetFriendlyCheckbox() {

WebElement roomsDropdown = driver.findElement(By.cssSelector("button[data-testid='filter-popover-trigger-1']"));

roomsDropdown.click();

WebElement petFriendlyCheckbox = driver.findElement(By.cssSelector("input[data-testid='pet-friendly-switch']"));

petFriendlyCheckbox.click();

WebElement searchButton = driver.findElement(By.cssSelector("button[data-testid='search-button']"));

searchButton.click();

}

@Test(priority = 5)

public void testAdvancedSearch() {

WebElement priceMinInput = driver.findElement(By.cssSelector("[name='mf-price-min']"));

priceMinInput.sendKeys(Keys.CONTROL + "a", Keys.DELETE, "2000");

WebElement priceMaxInput = driver.findElement(By.cssSelector("[name='mf-price-max']"));

priceMaxInput.sendKeys(Keys.CONTROL + "a", Keys.DELETE, "5000");

WebElement propertyTypeDropdown = driver.findElement(By.cssSelector("[for='accommodation-type']"));

propertyTypeDropdown.click();

WebElement hotelOption = driver.findElement(By.cssSelector("[data-value='HOTEL']"));

hotelOption.click();

WebElement guestRatingInput = driver.findElement(By.cssSelector("[name='mf-guestRating']"));

guestRatingInput.click();

WebElement rating = driver.findElement(By.cssSelector(""));

rating.click();

}

@Test(priority = 6)

public void testMoreFilters() {

WebElement wifi = driver.findElement(By.cssSelector(""));

wifi.click();

WebElement freeBreakFast = driver.findElement(By.cssSelector(""));

freeBreakFast.click();

}

@AfterMethod

public void afterMethod() {

  }

}

**2.**

package com.selenium.cia2;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

import static org.junit.Assert.assertTrue;

import org.junit.AfterClass;

import org.junit.BeforeClass;

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;

public class TC\_002 {

WebDriver driver;

@BeforeClass

public void setup() {

WebDriverManager.chromedriver().setup();

ChromeOptions co=new ChromeOptions();

co.addArguments("--remote-allow-origins=\*");

driver=new ChromeDriver(co);

driver.get("https://www.trivago.in/");

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

}

@AfterClass

public void teardown() {

driver.quit();

}

@Test

public void testSortingByPriceAndRecommendations() {

WebElement sortDropdown = driver.findElement(By.cssSelector(".df\_overlay\_container [data-qa='sort-dropdown']"));

sortDropdown.click();

WebElement priceAndRecOption = driver.findElement(By.cssSelector("[data-qa='sort-option'][data-option-id='2']"));

priceAndRecOption.click();

WebElement hotelList = driver.findElement(By.cssSelector("[data-qa='itemlist-section']"));

WebElement firstHotel = hotelList.findElement(By.cssSelector("[data-qa='item'][data-index='0']"));

WebElement hotelName = firstHotel.findElement(By.cssSelector("[data-qa='item-name']"));

WebElement hotelPrice = firstHotel.findElement(By.cssSelector("[data-qa='recommended-price']"));

System.out.println(hotelName.getText() + " - " + hotelPrice.getText());

assertTrue(hotelPrice.isDisplayed());

}

@Test

public void testSortingByPrice() {

WebElement sortDropdown = driver.findElement(By.cssSelector(".df\_overlay\_container [data-qa='sort-dropdown']"));

sortDropdown.click();

WebElement priceOption = driver.findElement(By.cssSelector("[data-qa='sort-option'][data-option-id='1']"));

priceOption.click();

WebElement hotelList = driver.findElement(By.cssSelector("[data-qa='itemlist-section']"));

WebElement firstHotel = hotelList.findElement(By.cssSelector("[data-qa='item'][data-index='0']"));

WebElement hotelName = firstHotel.findElement(By.cssSelector("[data-qa='item-name']"));

WebElement hotelPrice = firstHotel.findElement(By.cssSelector("[data-qa='recommended-price']"));

System.out.println(hotelName.getText() + " - " + hotelPrice.getText());

assertTrue(hotelPrice.isDisplayed());

}

@Test

public void testNumberOfStaysFound() {

WebElement hotelList = driver.findElement(By.cssSelector("[data-qa='itemlist-section']"));

int numberOfStays = hotelList.findElements(By.cssSelector("[data-qa='item']")).size();

System.out.println("Number of stays found: " + numberOfStays);

assertTrue(numberOfStays > 0);

}

@Test

public void testNumberOfBookingSitesSearched() {

WebElement bookingSitesDropdown = driver.findElement(By.cssSelector(".df\_overlay\_container [data-qa='booking-sites-dropdown']"));

bookingSitesDropdown.click();

int numberOfSites = driver.findElements(By.cssSelector(".df\_overlay\_container [data-qa='booking-site-item']")).size();

System.out.println("Number of booking sites searched: " + numberOfSites);

assertTrue(numberOfSites > 0);

    }

}

**3.**

package com.selenium.cia2;

import java.util.List;

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 org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

@Test

public class TC\_003 {

WebDriver driver;

public void TC\_003() {

WebDriverManager.chromedriver().setup();

ChromeOptions co=new ChromeOptions();

co.addArguments("--remote-allow-origins=\*");

driver=new ChromeDriver(co);

driver.get("https://www.trivago.in/");

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

List<WebElement> hotelNames = driver.findElements(By.xpath("//span[@data-qa='item-name']"));

for (int i = 0; i < 5; i++) {

System.out.println(hotelNames.get(i).getText());

}

WebElement viewDeal = driver.findElement(By.xpath("//span[@data-qa='recommended-price']"));

viewDeal.click();

String parentWindow = driver.getWindowHandle();

for (String childWindow : driver.getWindowHandles()) {

driver.switchTo().window(childWindow);

}

WebElement selectedHotelPrice = driver.findElement(By.xpath("//strong[@class='deal-price\_\_amount']"));

System.out.println("Selected hotel price: " + selectedHotelPrice.getText());

WebElement selectRoom = driver.findElement(By.xpath("//button[contains(@class,'js-book-button')]"));

selectRoom.click();

WebElement firstName = driver.findElement(By.xpath("//input[@name='firstname']"));

firstName.sendKeys("Yuvan");

WebElement lastName = driver.findElement(By.xpath("//input[@name='lastname']"));

lastName.sendKeys("Sankar");

WebElement email = driver.findElement(By.xpath("//input[@name='email']"));

email.sendKeys("yuvan@gmail.com");

WebElement confirmEmail = driver.findElement(By.xpath("//input[@name='email\_confirm']"));

confirmEmail.sendKeys("yuvan@gmail.com");

WebElement cancellationPolicy = driver.findElement(By.xpath("//h4[text()='Cancellation policy']/following-sibling::div/p"));

String cancellationPolicyText = cancellationPolicy.getText();

System.out.println("Check-in and Checkout dates: " + cancellationPolicyText);

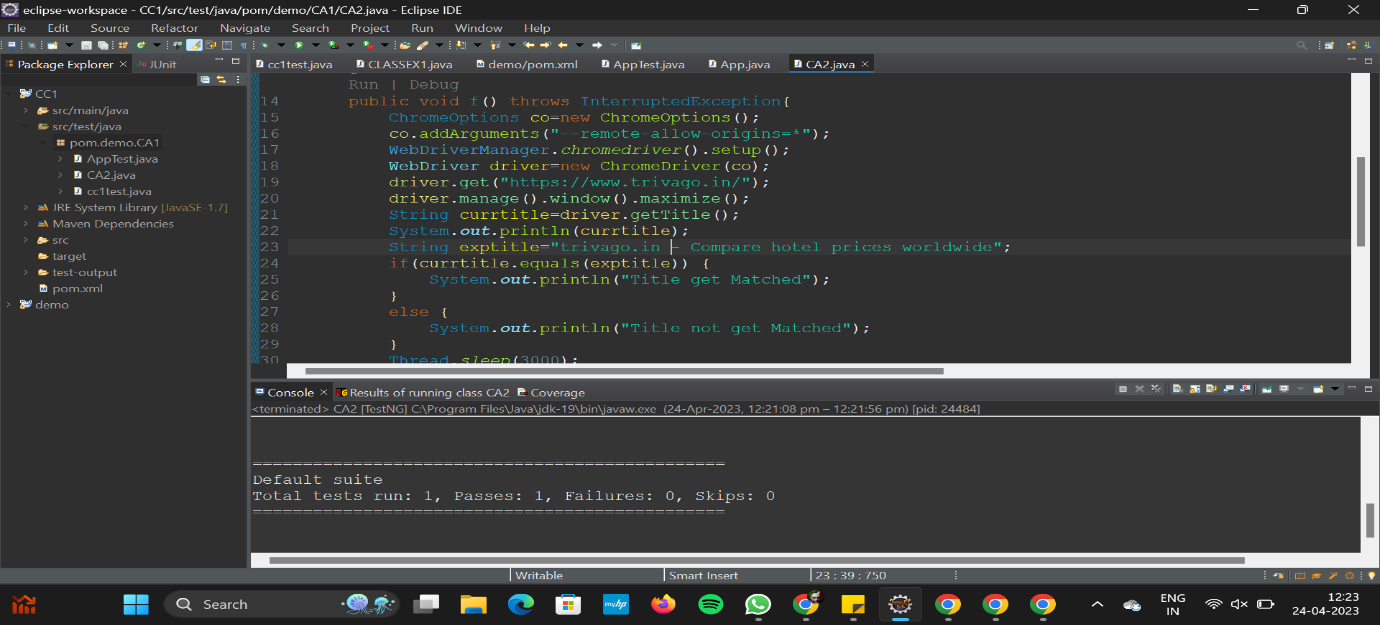
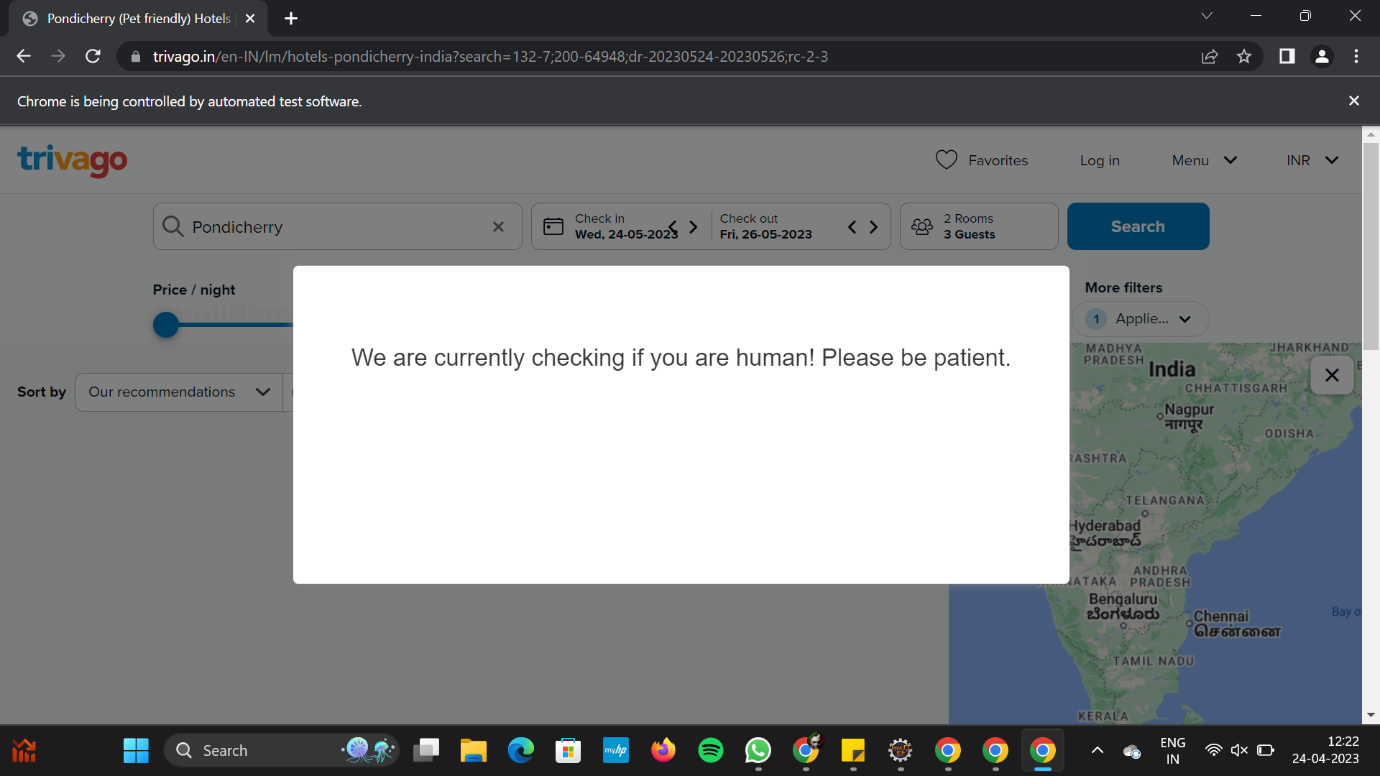
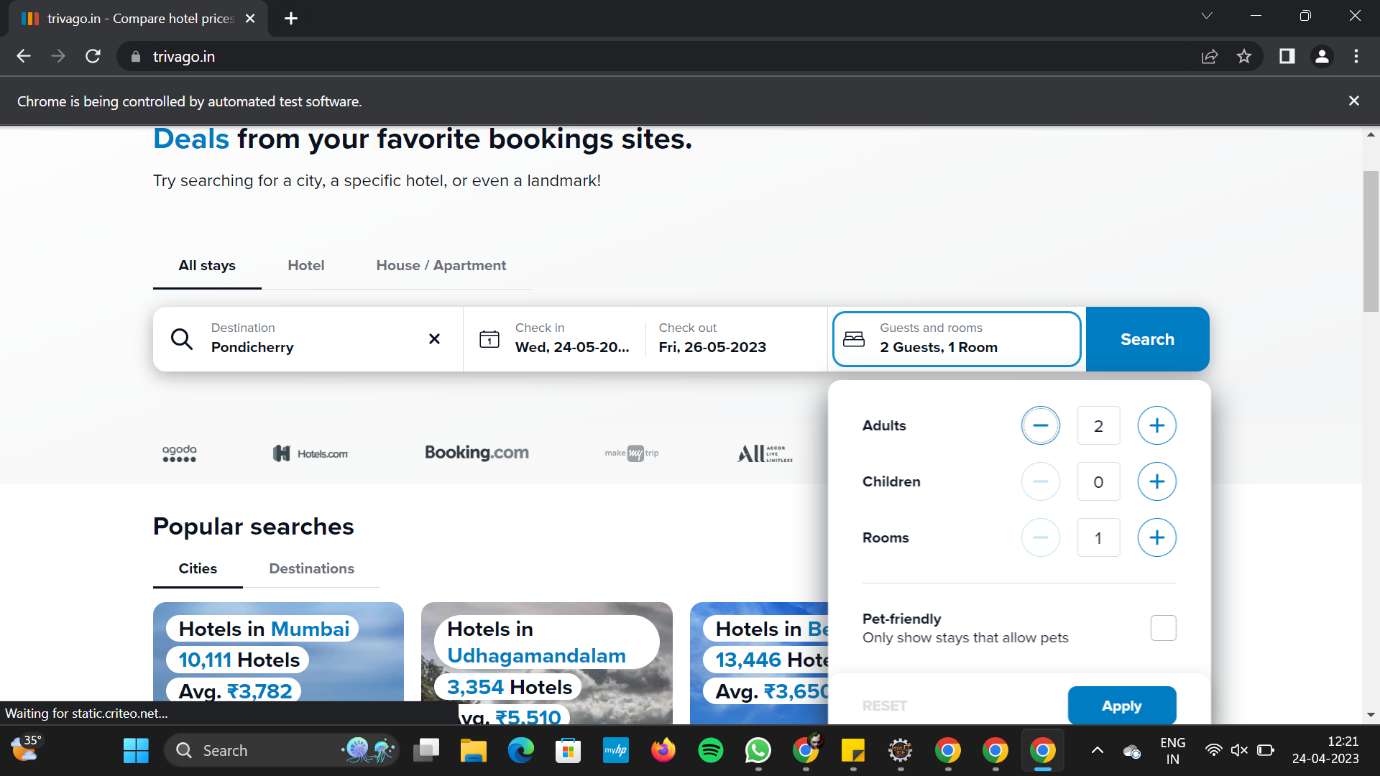
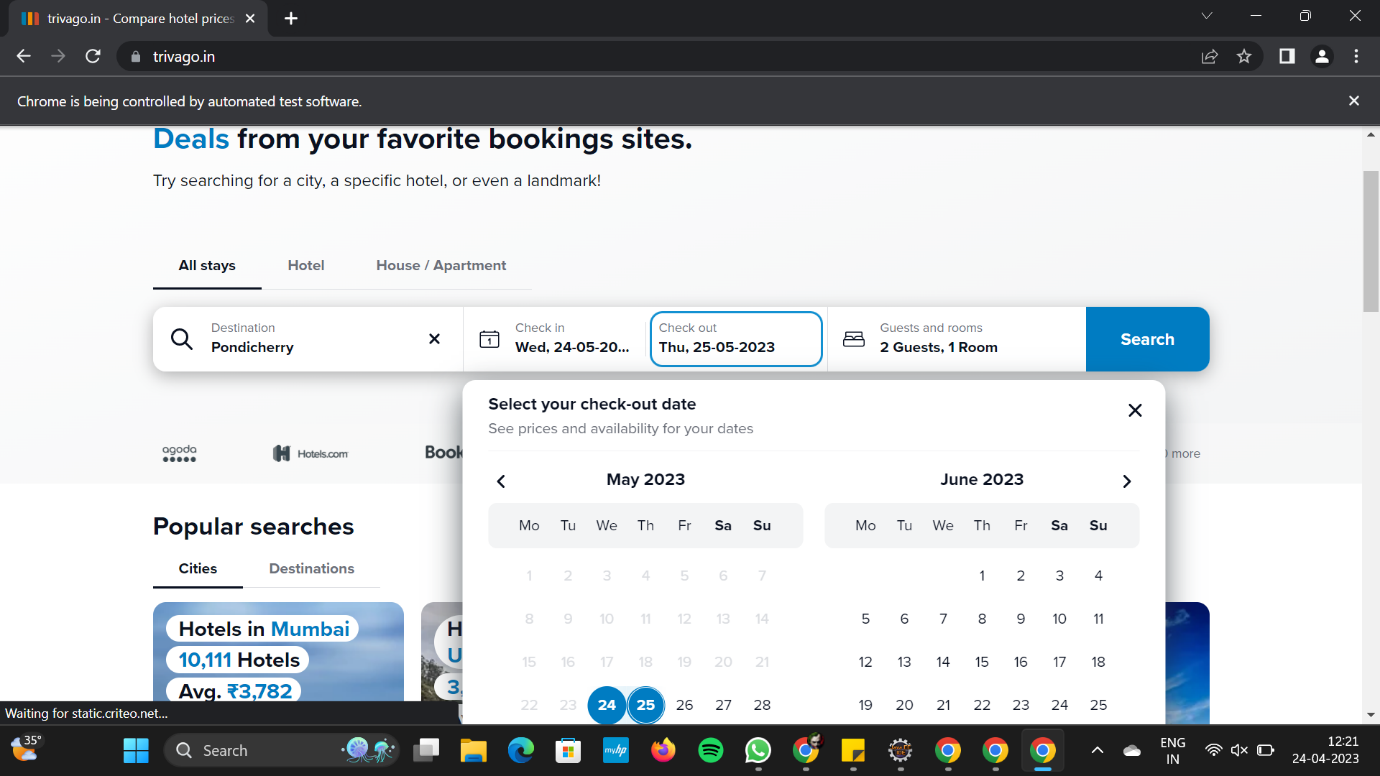
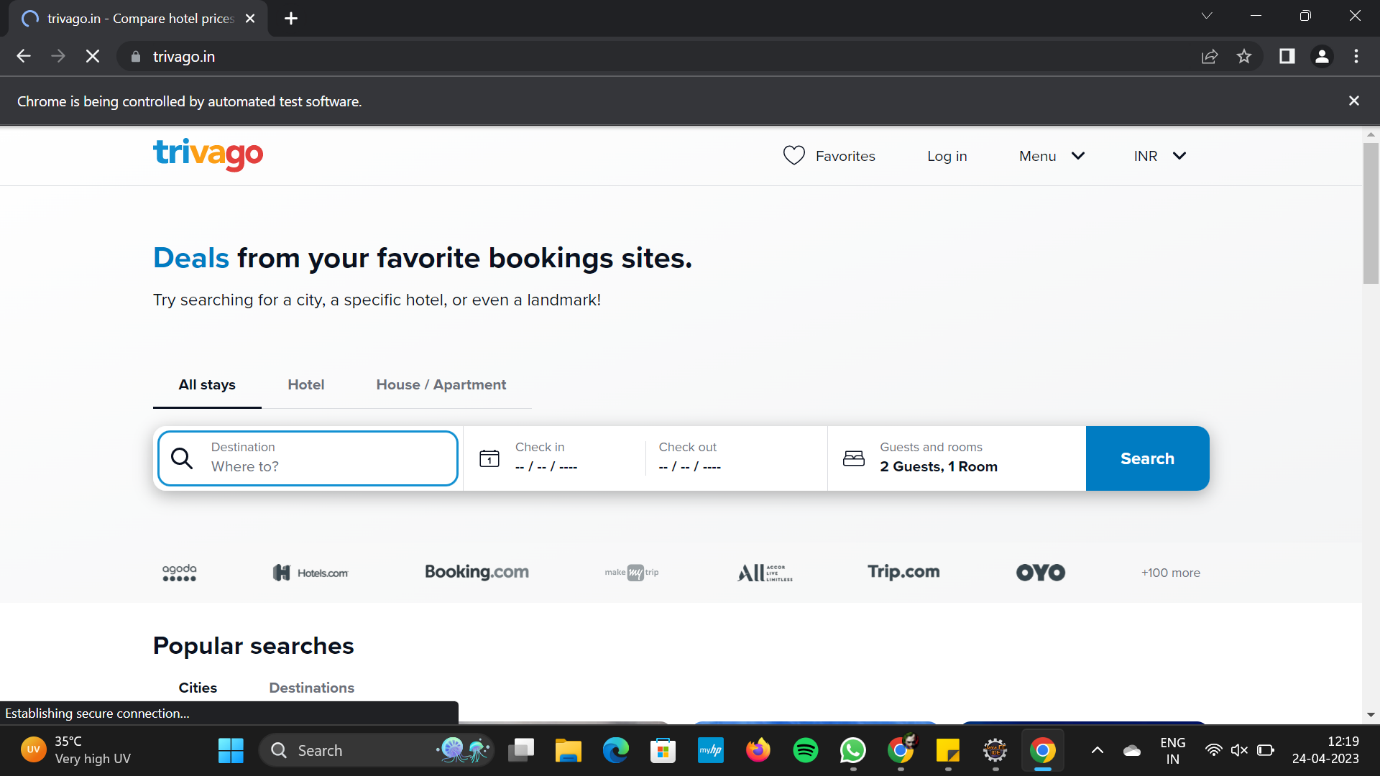
driver.switchTo().window(parentWindow);

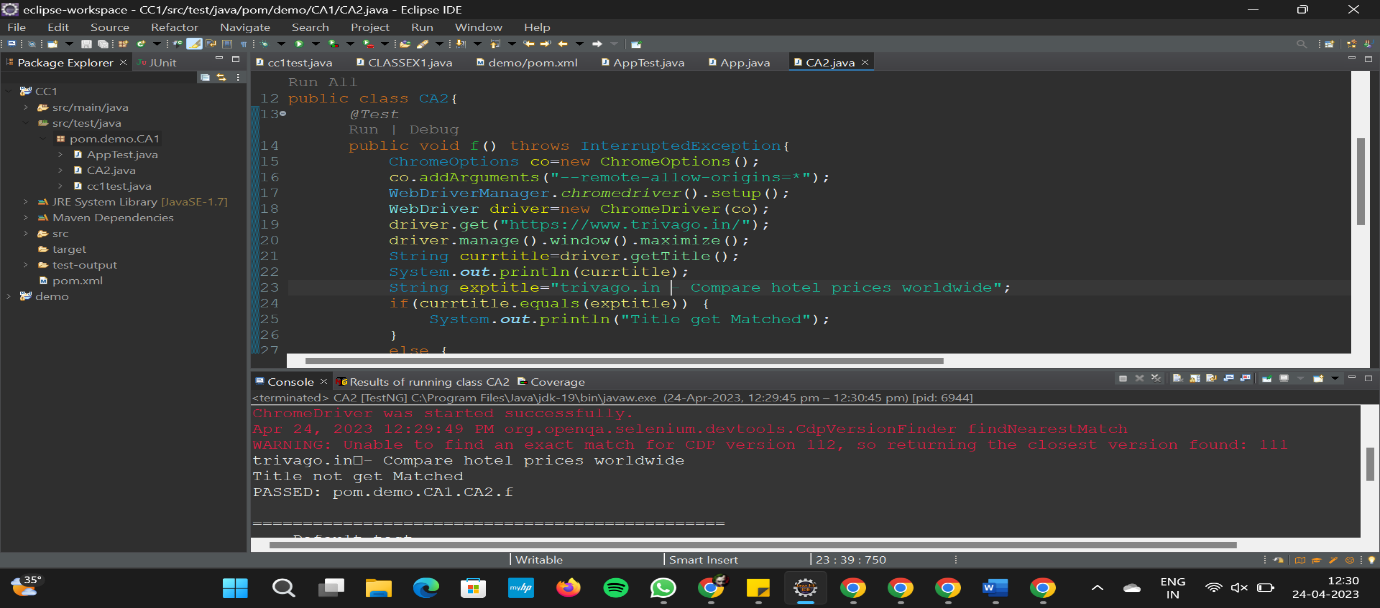
driver.close();

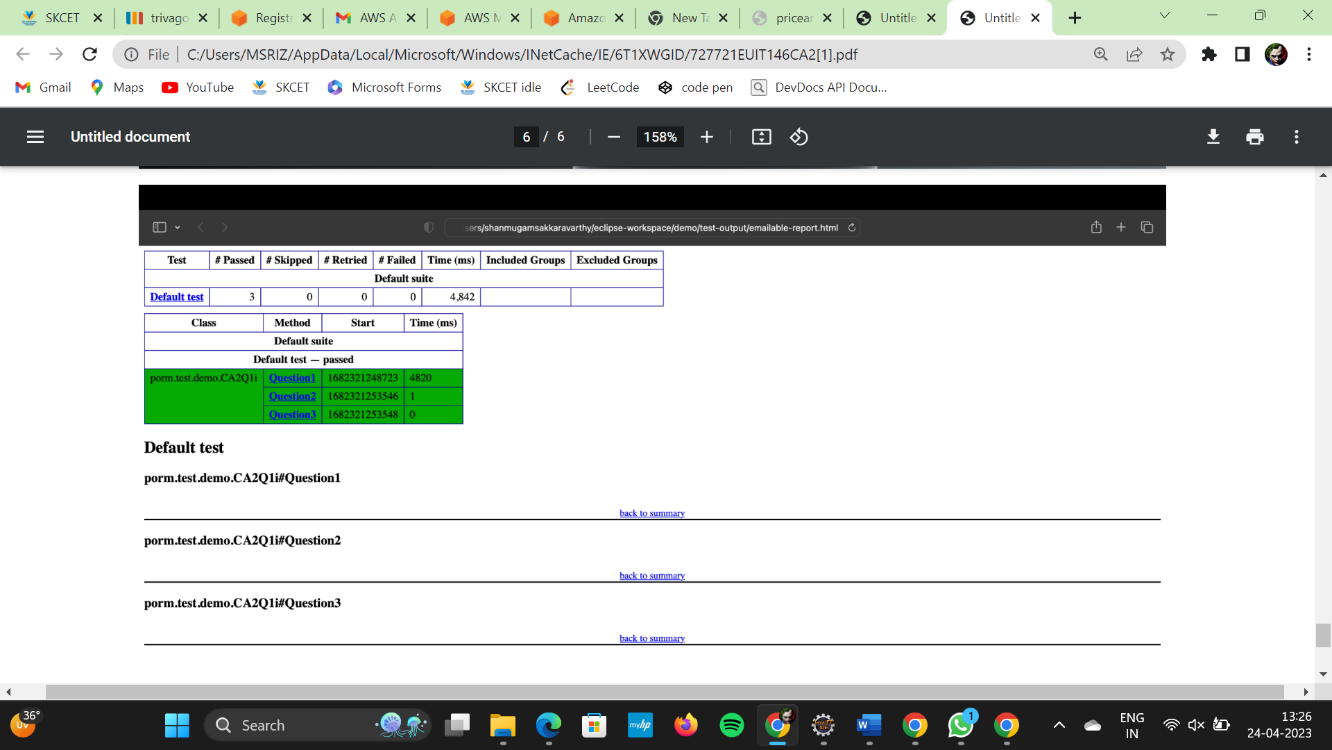
  }

}

**Output :**

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