CIA - 2
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```java
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 Question1 {
        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("Ooty ");
        Assert.assertEquals(locationInput.getAttribute("value"), "Ooty");
    }

    @Test(priority = 2)
```

```java
    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();
```

```java
        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 java.util.List;
```
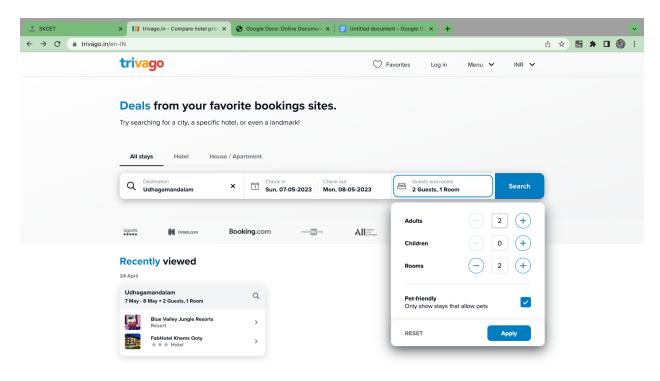
```java
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

@Test
public class Question2 {
        WebDriver driver;

  public void qued() {
          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();
```

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

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

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

    WebElement confirmEmail =
driver.findElement(By.xpath("//input[@name='email_confirm']"));
    confirmEmail.sendKeys("suraj@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();
 }
}
```

3)

```java
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;
```

```java
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
public class Question3 {
        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();
```

```java
        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);
    }
}
```

OUTPUT:

trivago

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Deals from your favorite bookings sites.

Try searching for a city, a specific hotel, or even a landmark!

All stays   Hotel   House / Apartment

🔍 Destination
Udhagamandalam   ✕

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Mon, 08-05-2023

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2 Guests, 1 Room

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