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1)

```java
package selen31.testday4;
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.AssertJUnit;
import org.testng.ITestListener;
import org.testng.ITestResult;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;
import com.aventstack.extentreports.ExtentReports;
import com.aventstack.extentreports.ExtentTest;
import com.aventstack.extentreports.Status;
import com.aventstack.extentreports.reporter.ExtentHtmlReporter;
import com.aventstack.extentreports.reporter.configuration.ChartLocation;
import com.aventstack.extentreports.reporter.configuration.Theme;
import io.github.bonigarcia.wdm.WebDriverManager;

public class AppTest implements ITestListener {
        static ExtentTest test;
        static ExtentReports extent;
        ExtentHtmlReporter htmlReporter;
        @BeforeClass
        public void startReport() {
                //ExtentSparkReporter htmlReporter = new ExtentSparkReporter("extentReport.html");
                //htmlReporter =  new
ExtentHtmlReporter(System.getProperty("user.dir")+"/test-output/extentReport.html");
                htmlReporter =  new ExtentHtmlReporter("D:\\d10ce12.html");
                extent = new ExtentReports();
                extent.attachReporter(htmlReporter);
                //configuration items to change the look and feel
    //add content, manage tests etc
    htmlReporter.config().setChartVisibilityOnOpen(true);
    htmlReporter.config().setDocumentTitle("Simple Automation Report");
    htmlReporter.config().setReportName("Test Report");
    htmlReporter.config().setTestViewChartLocation(ChartLocation.TOP);
    htmlReporter.config().setTheme(Theme.STANDARD);
    // htmlReporter.config().setTimeStampFormat("EEEE, MMMM dd, yyyy, hh:mm a '('zzz')'");
        }
          @Test

        public void f() throws InterruptedException{
```

```java
WebDriverManager.chromedriver().setup();
        WebDriver  driver;
        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allow-origins=*");
        driver=new ChromeDriver(co);
        driver.manage().window().maximize();
        driver.get("https://www.trivago.in/");
        Thread.sleep(2000);
        String actualTitle="trivago.in - Compare hotel prices worldwide";
        String extractedTitle=driver.getTitle();
        AssertJUnit.assertEquals(actualTitle, extractedTitle);
        System.out.println("Page title is Validated.");
        Thread.sleep(2000);
        WebElement
location=driver.findElement(By.xpath("//*[@id=\"__next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[1]/div/form/div"));
        location.click();
        Thread.sleep(2000);
        WebElement
ben=driver.findElement(By.xpath("//*[@id=\"suggestion-list\"]/ul/li[1]/div/div"));
        ben.click();
        Thread.sleep(2000);
        WebElement
cin=driver.findElement(By.xpath("//*[@id=\"__next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div/div[2]/div/div[1]/div[2]/button[2]/time"));
        cin.click();
        Thread.sleep(2000);
        WebElement
cout=driver.findElement(By.xpath("//*[@id=\"__next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div/div[2]/div/div[1]/div[2]/button[7]/time"));
        cout.click();
        Thread.sleep(2000);
        WebElement
inc=driver.findElement(By.xpath("//*[@id=\"__next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div[1]/div/div[1]/div[1]/div/button[2]/span/span[1]"));
        inc.click();
        inc.click();
        inc.click();
        Thread.sleep(2000);
        WebElement pet=driver.findElement(By.id("checkbox-13"));
        pet.click();
        Thread.sleep(3000);
        WebElement
apply=driver.findElement(By.xpath("//*[@id=\"__next\"]/div[1]/div[1]/section/div[2]/div[3]/div/div[2]/div/div/div[2]/div/button[2]"));
        apply.click();
        Thread.sleep(3000);
        if(driver.getTitle().equals("Bengaluru (Pet friendly) Hotels | Find & compare great deals on trivago")) {
```

```java
                                System.out.println("1.Verified that the user can enter the location of
stay.");
                                System.out.println("2.Verified that the user can select the check-in and
check-out date.");
                                System.out.println("3.Verified that the user can enter the no of rooms
based on their preference.");
                        }
        }


        @AfterMethod
        public void getResult(ITestResult result) {
                if(result.getStatus() == ITestResult.FAILURE) {
            test.log(Status.FAIL,result.getThrowable());
        }
        else if(result.getStatus() == ITestResult.SUCCESS) {
            test.log(Status.PASS, result.getTestName());
        }
        else {
            test.log(Status.SKIP, result.getTestName());
        }
        }


}
```
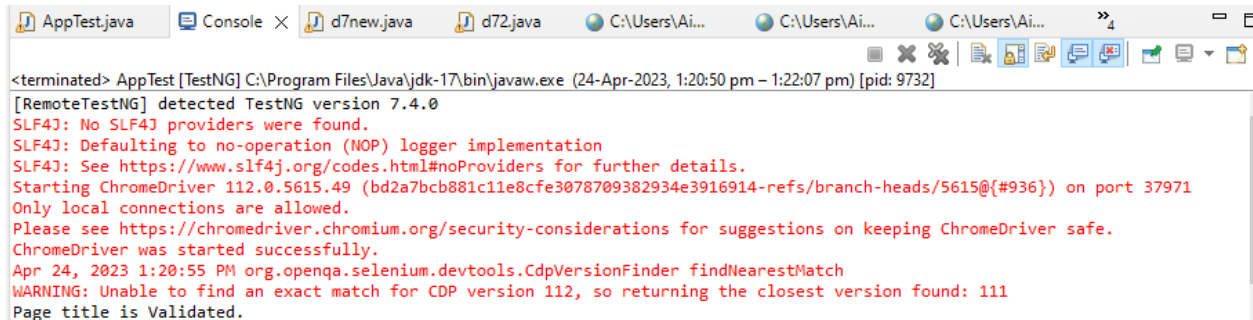
OUTPUT:


```
AppTest.java    Console X    d7new.java    d72.java    C:\Users\Ai...    C:\Users\Ai...    C:\Users\Ai...    »4

<terminated> AppTest [TestNG] C:\Program Files\Java\jdk-17\bin\javaw.exe (24-Apr-2023, 1:20:50 pm – 1:22:07 pm) [pid: 9732]
[RemoteTestNG] detected TestNG version 7.4.0
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 37971
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 24, 2023 1:20:55 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
Page title is Validated.
```