



School of Computer Science and Engineering

Subject Code : PMCA614P

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Website:	https://tutorialsninja.com/demo/						
Project Name	Qafox						
Module	Login						
Created By	Piyush Verma						
Reviewed By	Renjith P N						
Date of Creation	05.01.24						

Test Case ID	Test Scenario	Test Case	Steps	Test Data	Expected Result	Actual Result	Test Status	Priority	Bug
TC_Login_01	Successful Login	Login with Valid Credentials	1. Navigate to the login page. 2. Enter valid username and password. 3. Click on the login button.	Valid username and password	User is successfully logged in and redirected to the home page.	-	Not Executed	High	-
TC_Login_02	Unsuccessful Login	Login with Invalid Credentials	1. Navigate to the login page. 2. Enter invalid username or password. 3. Click on the login button.	Invalid username or password	Appropriate error message is displayed, and the user is not logged in.	-	Not Executed	High	-
TC_Login_03	Test Remember Me Option	Remember Me Functionality	1. Check the "Remember Me" option. 2. Log in and close the browser. 3. Open the browser and navigate to the website.	-	User is automatically logged in without entering credentials.	-	Not Executed	Medium	-
TC_Login_04	Test Password Recovery	Password Recovery Process	1. Click on the "Forgot Password" link. 2. Enter the email for password recovery. 3. Follow the instructions sent to the email.	Valid email address	User successfully recovers the password using the provided instructions.	-	Not Executed	High	-

Test Case ID	Test Scenario	Test Case	Steps	Test Data	Expected Result	Actual Result	Test Status	Priority	Bug
TC_UserRegistration_01	Registration Form Validation	Form Validation	1. Navigate to the registration page. 2. Submit the registration form without filling in required fields.	-	Appropriate error messages are displayed.	-	Not Executed	High	-
TC_UserRegistration_02	Successful User Registration	Registration Process	1. Navigate to the registration page. 2. Fill in valid information and submit the form.	Valid user data	User is successfully registered and redirected to the home page.	-	Not Executed	High	-
TC_UserRegistration_03	Test Password Strength	Password Strength Check	1. Enter a password in the registration form. 2. Check the password strength indicator.	-	Password strength indicator reflects the strength accurately.	-	Not Executed	Medium	-
TC_UserRegistration_04	Test Email Verification	Email Verification	1. Register a new account. 2. Verify the email using the confirmation link.	Valid email address	Email is verified successfully.	-	Not Executed	High	-

Test Case ID	Test Scenario	Test Case	Steps	Test Data	Expected Result	Actual Result	Test Status	Priority	Bug
TC_HomePage_01	Verify Logo and Navigation Bar	Logo and Navigation Bar Check	1. Open the website. 2. Check the presence and visibility of the logo. 3. Verify the functionality of the navigation bar links.	-	The logo is visible, and navigation bar links work correctly.	-	Not Executed	High	-
TC_HomePage_02	Check Featured Products	Featured Products Check	1. Open the website. 2. Verify the presence and functionality of featured product sections.	-	Featured products are displayed, and their links work correctly.	-	Not Executed	Medium	-
TC_HomePage_03	Check Footer Links	Footer Links Check	1. Scroll to the bottom of the home page. 2. Verify the functionality of footer links.	-	Footer links navigate to the correct sections/pages.	-	Not Executed	Medium	-
TC_HomePage_04	Test Search Bar	Search Bar Functionality	1. Enter a search query in the search bar. 2. Press Enter.	Search query: "Laptop"	Relevant search results are displayed.	-	Not Executed	High	-

Website: <https://tutorialsninja.com/demo/>

Project Name
Moule
Created By
Reviewed By
Date of Creation

Test Case ID	Test Scenario	Test Case	Steps	Test Data	Expected Result	Actual Result	Test Status	Priority	Bug
TC_ProductSearch_01	Search for a Product	Product Search	1. Navigate to the search bar. 2. Enter a product name and press Enter.	Product name: "PC"	Relevant products are displayed.	-	Not Executed	High	-
TC_ProductSearch_02	Filter Search Results	Filtered Search	1. Search for a product. 2. Apply filters (e.g., price range, category).	Product category: "Desktops"	Search results are refined based on applied filters.	-	Not Executed	Medium	-
TC_ProductSearch_03	Test Search Suggestions	Search Suggestions Check	1. Start typing in the search bar. 2. Check for search suggestions.	-	Search suggestions appear as the user types.	-	Not Executed	Medium	-
TC_ProductSearch_04	Test Clear Search Results	Clear Search Results	1. Perform a search. 2. Click on the "Clear" or "X" button.	-	Search results are cleared.	-	Not Executed	Medium	-

Selenium Automation testing of Parabank website

Name: Piyush Verma

RegNo: 23MCA1104

Module-1: Customer Registration

The screenshot shows the Selenium IDE interface with a test case named 'Register-5' selected. The test case details are as follows:

Command	Target	Value
1 ✓ open	parabankindex.htm	
2 ✓ set window size	1380x784	
3 ✓ click	linkText:Register	
4 ✓ click	id=customer.firstName	
5 ✓ type	id=customer.firstName	utkarsh
6 ✓ type	id=customer.firstName	abcde

Testcase-1: New user Registration

https://parabank.parasoft.com			
	Command	Target	Value
11	✓ type	id=customer.address.state	tamilnadu
12	✓ type	id=customer.address.zipCode	600127
13	✓ type	id=customer.phoneNumber	9696969696
14	✓ type	id=customer.ssn	965874
15	✓ type	id=customer.username	abcde@xyz
16	✓ type	id=customer.password	acd@123
17	✓ type	id=repeatedPassword	abc@123
18	✓ click	css=td > .button	
19	✓ click	id=customer.password	
20	✓ type	id=customer.password	abc@123
21	✓ type	id=repeatedPassword	abc@123
22	✓ send keys	id=repeatedPassword	\$(KEY_ENTER)
23	✓ click	linkText=Log Out	

Log:

Log	Reference
15. type on id=customer.username with value abcde@xyz OK	
16. type on id=customer.password with value acd@123 OK	
17. type on id=repeatedPassword with value abc@123 OK	
18. click on css=td > .button OK	
19. click on id=customer.password OK	
20. type on id=customer.password with value abc@123 OK	
21. type on id=repeatedPassword with value abc@123 OK	
22. sendKeys on id=repeatedPassword with value \${KEY_ENTER} OK	
23. Trying to find linkText=Log Out... OK	
Warning Element found with secondary locator xpath=/li[8]/a. To use it by default, update the test step to use it as the primary locator.	
'Register-1' completed successfully	

Conclusion: New User Registration successful

Testcase-2: Existing user registration again

10.	✓ type	id=customer.address.state	tamilnad
11.	✓ type	id=customer.address.state	tamilnadu
12.	✓ type	id=customer.address.zipCode	600127
13.	✓ type	id=customer.phoneNumber	9696969696
14.	✓ type	id=customer.ssn	965874
15.	✓ type	id=customer.username	abcde@xyzpqr
16.	✓ type	id=customer.password	acd@123
17.	✓ type	id=repeatedPassword	abc@123
18.	✓ click	css=td > .button	
19.	✓ click	id=customer.password	
20.	✓ type	id=customer.password	abc@123
21.	✓ type	id=repeatedPassword	abc@123
22.	✓ send keys	id=repeatedPassword	\${KEY_ENTER}

Log:

Log	Reference
13. type on id=customer.phoneNumber with value 9696969696 OK	
14. type on id=customer.ssn with value 965874 OK	
15. type on id=customer.username with value abcde@xyzpqr OK	
16. type on id=customer.password with value acd@123 OK	
17. type on id=repeatedPassword with value abc@123 OK	
18. click on css=td > .button OK	
19. click on id=customer.password OK	
20. type on id=customer.password with value abc@123 OK	
21. type on id=repeatedPassword with value abc@123 OK	
22. sendKeys on id=repeatedPassword with value \${KEY_ENTER} OK	
'Register-2' completed successfully	

Conclusion:

The screenshot shows a registration form with three input fields: 'Username' (containing 'abcde@xyzpqr'), 'Password', and 'Confirm'. A red error message 'This username already exists.' is displayed above the password field. Below the fields is a 'REGISTER' button.

Testcase-3: Empty user name

Testcase-3: Empty user name

https://parabank.parasoft.com

	Command	Target	Value
10	✓ type	id=customer.address.state	tamilnad
11	✓ type	id=customer.address.state	tamilnadu
12	✓ type	id=customer.address.zipCode	600127
13	✓ type	id=customer.phoneNumber	9696969696
14	✓ type	id=customer.ssn	965874
15	✓ type	id=customer.username	
16	✓ type	id=customer.password	acd@123
17	✓ type	id=repeatedPassword	abc@123
18	✓ click	css=td > .button	
19	✓ click	id=customer.password	
20	✓ type	id=customer.password	abc@123
21	✓ type	id=repeatedPassword	abc@123
22	✓ send keys	id=repeatedPassword	\${KEY_ENTER}

Log:

Log Reference

13. type on id=customer.phoneNumber with value 9696969696 OK
14. type on id=customer.ssn with value 965874 OK
15. type on id=customer.username OK
16. type on id=customer.password with value acd@123 OK
17. type on id=repeatedPassword with value abc@123 OK
18. click on css=td > .button OK
19. click on id=customer.password OK
20. type on id=customer.password with value abc@123 OK
21. type on id=repeatedPassword with value abc@123 OK
22. sendKeys on id=repeatedPassword with value \${KEY_ENTER} OK
'Register-3' completed successfully

Conclusion:

The screenshot shows a registration form with three input fields: 'Username' (empty), 'Password' (empty), and 'Confirm' (empty). Below the fields is an orange 'REGISTER' button. To the right of the 'Username' field, a red error message reads 'Username is required.'

Username:	<input type="text"/>	Username is required.
Password:	<input type="password"/>	
Confirm:	<input type="password"/>	
REGISTER		

Testcase-4: Empty username and mismatch password

	Command	Target	Value
1	✓ type	id=customer.address.street	chennai
2	✓ type	id=customer.address.city	chennai
10	✓ type	id=customer.address.state	tamilnadu
11	✓ type	id=customer.address.state	tamilnadu
12	✓ type	id=customer.address.zipCode	600127
13	✓ type	id=customer.phoneNumber	9686666695
14	✓ type	id=customer.ssn	965874
15	✓ type	id=customer.username	
16	✓ click	css=id > .button	
17	✓ click	id=customer.password	
18	✓ type	id=customer.password	abc@123
19	✓ type	id=repeatedPassword	abc@12345
20	✓ sendKeys	id=repeatedPassword	\${KEY_ENTER}

Log:

Log	Reference
14. type on id=customer.ssn with value 965874	OK
15. type on id=customer.username	OK
16. click on css=td > .button	OK
17. click on id=customer.password	OK
18. type on id=customer.password with value abc@123	OK
19. type on id=repeatedPassword with value abc@12345	OK
20. sendKeys on id=repeatedPassword with value \${KEY_ENTER}	OK
'Register-4' completed successfully	

Conclusion:

The screenshot shows a registration form with three input fields: 'Username', 'Password', and 'Confirm'. Below the 'Confirm' field, there are two error messages: 'Username is required.' and 'Passwords did not match.' A 'REGISTER' button is at the bottom.

Username:		Username is required.
Password:		
Confirm:		Passwords did not match.
REGISTER		

Testcase-5: Wrong Phone number format

9	✓ type	id=customer.address.city	chennai
10	✓ type	id=customer.address.state	tamilnad
11	✓ type	id=customer.address.state	tamilnadu
12	✓ type	id=customer.address.zipCode	600127
13	✓ type	id=customer.phoneNumber	26969696968
14	✓ type	id=customer.ssn	965874
15	✓ type	id=customer.username	abcde@xyz.a
16	✓ click	css=td > .button	
17	✓ click	id=customer.password	
18	✓ type	id=customer.password	abc@123
19	✓ type	id=repeatedPassword	abc@123
20	✓ send keys	id=repeatedPassword	\${KEY_ENTER}

Log:

Log	Reference
11. type on id=customer.address.state with value tamilnadu	OK
12. type on id=customer.address.zipCode with value 600127	OK
13. type on id=customer.phoneNumber with value 26969696968	OK
14. type on id=customer.ssn with value 965874	OK
15. type on id=customer.username with value abcde@xyz.a	OK
16. click on css=td > .button	OK
17. click on id=customer.password	OK
18. type on id=customer.password with value abc@123	OK
19. type on id=repeatedPassword with value abc@123	OK
20. sendKeys on id=repeatedPassword with value \${KEY_ENTER}	OK
'Register-5' completed successfully	

Conclusion: Registration successful.

Module: Login

Testcase-1: Correct username and correct password

	Command	Target	Value
1	✓ open		
2	✓ type	name=username	abcde@xyz
3	✓ type	name=password	abc@123
4	✓ send keys	name=password	\${KEY_ENTER}

Log:

```
Running Login-1
1. open OK
2. type on name=username with value abcde@xyz OK
3. type on name=password with value abc@123 OK
4. sendKeys on name=password with value ${KEY_ENTER} OK
'Login-1' completed successfully
```

Conclusion: Login Successfully.

Welcome abcde xyz

Account Services

- [Open New Account](#)
- [Accounts Overview](#)
- [Transfer Funds](#)
- [Bill Pay](#)
- [Find Transactions](#)
- [Update Contact Info](#)
- [Request Loan](#)
- [Log Out](#)

Accounts Overview

Account	Balance*	Available Amount
13566	\$5000.00	\$5000.00
Total \$5000.00		

*Balance includes deposits that may be subject to holds

Testcase-2: Correct username and wrong password

	Command	Target	Value
1	✓ open		
2	✓ type	name=username	abcde@xyz
3	✓ type	name=password	abc@12345
4	✓ send keys	name=password	\${KEY_ENTER}

Log:

```
Running 'Login-2'  
1. open OK  
2. type on name=username with value abcde@xyz OK  
3. type on name=password with value abc@12345 OK  
4. sendKeys on name=password with value ${KEY_ENTER} OK  
'Login-2' completed successfully
```

Conclusion: Error occurs

The form consists of two columns. The left column contains fields for 'Username' (empty red box) and 'Password' (empty orange box), both with placeholder text. Below these is a 'LOG IN' button (orange) and links for 'Forgot login info?' and 'Register'. The right column has a large 'Error!' message in red at the top, followed by the text 'An internal error has occurred and has been logged.'

Customer Login

Username

Password

Error!

An internal error has occurred and has been logged.

[Forgot login info?](#)

[Register](#)

Testcase-3: wrong username and correct password

	Command	Target	Value
1	✓ open		
2	✓ type	name=username	abcde@xyzap
3	✓ type	name=password	abc@123
4	✓ send keys	name=password	\${KEY_ENTER}

Log:

```
Running 'Login-3'  
1. open OK  
2. type on name=username with value abcde@xyzap OK  
3. type on name=password with value abc@123 OK  
4. sendKeys on name=password with value ${KEY_ENTER} OK  
'Login-3' completed successfully
```

Conclusion:

The screenshot shows a 'Customer Login' form. On the left, there are fields for 'Username' (empty) and 'Password' (empty). Below these is a 'LOG IN' button. To the right, a red 'Error!' box contains the text 'An internal error has occurred and has been logged.'

[Forgot login info?](#)
[Register](#)

Testcase-4: wrong username and wrong password

	Command	Target	Value
1	✓ open		
2	✓ type	name=username	abcde@xyzap
3	✓ type	name=password	abc@123
4	✓ send keys	name=password	\${KEY_ENTER}

Log:

Running 'Login-4'

1. open OK
2. type on name=username with value abcde@xyzap OK
3. type on name=password with value abc@12345 OK
4. sendKeys on name=password with value \${KEY_ENTER} OK

'Login-4' completed successfully

Conclusion: Error

The screenshot shows a 'Customer Login' form. On the left, there are fields for 'Username' (empty) and 'Password' (empty). Below these is a 'LOG IN' button. To the right, a red 'Error!' box contains the text 'An internal error has occurred and has been logged.'

[Forgot login info?](#)
[Register](#)

Testcase-5: Empty username and correct password

	Command	Target	Value
1	✓ open		
2	✓ type	name=username	
3	✓ type	name=password	abc@12345
4	✓ send keys	name=password	\${KEY_ENTER}

Log:

```
Running 'Login-5'  
1. open OK  
2. type on name=username OK  
3. type on name=password with value abc@12345 OK  
4. sendKeys on name=password with value ${KEY_ENTER} OK  
'Login-5' completed successfully
```

Conclusion: Error (enter username and password)

The image shows a 'Customer Login' form. On the left, there are two input fields: 'Username' and 'Password', both of which are currently empty and highlighted with orange borders. Below these fields is a 'LOG IN' button. To the right of the inputs, a large red error message box is displayed with the title 'Error!' and the text 'Please enter a username and password.' Below the error message, there are two links: 'Forgot login info?' and 'Register'.

Customer Login

Username

Password

Error!

Please enter a username and password.

[Forgot login info?](#)

[Register](#)

Module: Customer feedback

Testcase-1: Correct information

	Command	Target	Value
1	✓ open	/parabank/index.htm	
2	✓ set window size	1346x748	
3	✓ click	linkText=contact	
4	✓ click	id=name	
5	✓ type	id=name	abcde
6	✓ type	id=email	abcde@gmail.com
7	✓ type	id=phone	9696969696
8	✓ type	id=message	Nice platform
9	✓ click	css=.button:nth-child(1)	

Log:

Log	Reference
Running 'Feedback-1'	
1. open on /parabank/index.htm OK	
2.	setWindowSize on 1346x748 OK
3.	click on linkText=contact OK
4.	click on id=name OK
5.	type on id=name with value abcde OK
6.	type on id=email with value abcde@gmail.com OK
7.	type on id=phone with value 9696969696 OK
8.	type on id=message with value Nice platform OK
9.	click on css=.button:nth-child(1) OK
'Feedback-1' completed successfully	

Conclusion: Submitted successfully

Customer Care

Thank you abcde

A Customer Care Representative will be contacting you.

Testcase-2: wrong email format

	Command	Target	Value
1	✓ open	/parabank/index.htm	
2	✓ set window size	1346x748	
3	✓ click	linkText=contact	
4	✓ click	id=name	
5	✓ type	id=name	abcde
6	✓ type	id=email	abcd
7	✓ type	id=phone	9696969696
8	✓ type	id=message	Nice platform
9	✓ click	css=.button:nth-child(1)	

Log:

Log	Reference
Running 'Feedback-1'	
1. open on /parabank/index.htm OK	
2.	setWindowSize on 1346x748 OK
3.	click on linkText=contact OK
4.	click on id=name OK
5.	type on id=name with value abcde OK
6.	type on id=email with value abcd OK
7.	type on id=phone with value 9696969696 OK
8.	type on id=message with value Nice platform OK
9.	click on css=.button:nth-child(1) OK
'Feedback-1' completed successfully	

Conclusion: Feedback submitted successful but it should not

Customer Care

Thank you abcde

A Customer Care Representative will be contacting you.

Testcase-3: wrong email format and wrong phone number format

	Command	Target	Value
2	✓ set window size	1346x748	
3	✓ click	linkText=contact	
4	✓ click	id=name	
5	✓ type	id=name	abcde
6	✓ type	id=email	abcd
7	✓ type	id=phone	9696
8	✓ type	id=message	Nice platform
9	✓ click	css=.button:nth-child(1)	

Log:

Running 'Feedback-1'

1. open on /parabank/index.htm OK
2. setWindowSize on 1346x748 OK
3. click on linkText=contact OK
4. click on id=name OK
5. type on id=name with value abcde OK
6. type on id=email with value abcd OK
7. type on id=phone with value 9696 OK
8. type on id=message with value Nice platform OK
9. click on css=.button:nth-child(1) OK

'Feedback-1' completed successfully

Conclusion:

Customer Care

Thank you abcde

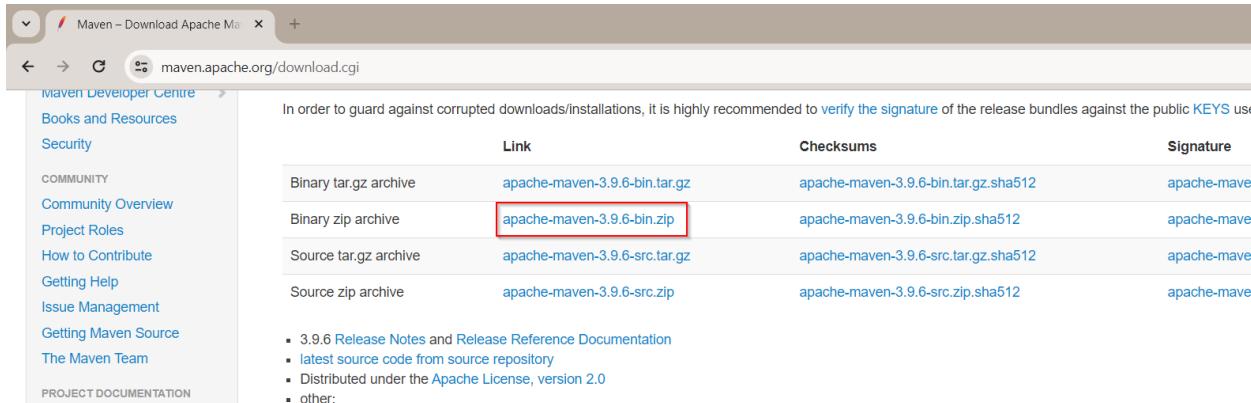
A Customer Care Representative will be contacting you.

Name: Piyush Verma
Register No.: 23MCA1104

PAT 3 – loginTest()

Download Java.

Download Apache Maven.



	Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.9.6-bin.tar.gz	apache-maven-3.9.6-bin.tar.gz.sha512	apache-maver
Binary zip archive	apache-maven-3.9.6-bin.zip	apache-maven-3.9.6-bin.zip.sha512	apache-maver
Source tar.gz archive	apache-maven-3.9.6-src.tar.gz	apache-maven-3.9.6-src.tar.gz.sha512	apache-maver
Source zip archive	apache-maven-3.9.6-src.zip	apache-maven-3.9.6-src.zip.sha512	apache-maver

▪ 3.9.6 [Release Notes](#) and [Release Reference Documentation](#)
▪ [latest source code from source repository](#)
▪ Distributed under the [Apache License, version 2.0](#).
▪ other:

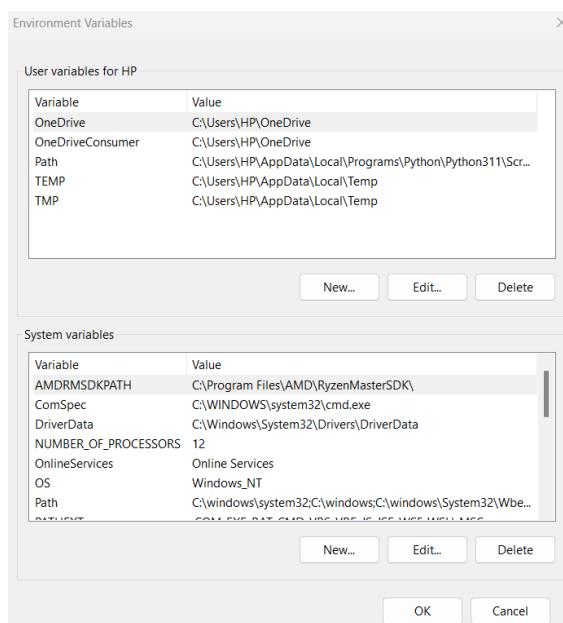
<https://maven.apache.org/download.cgi>

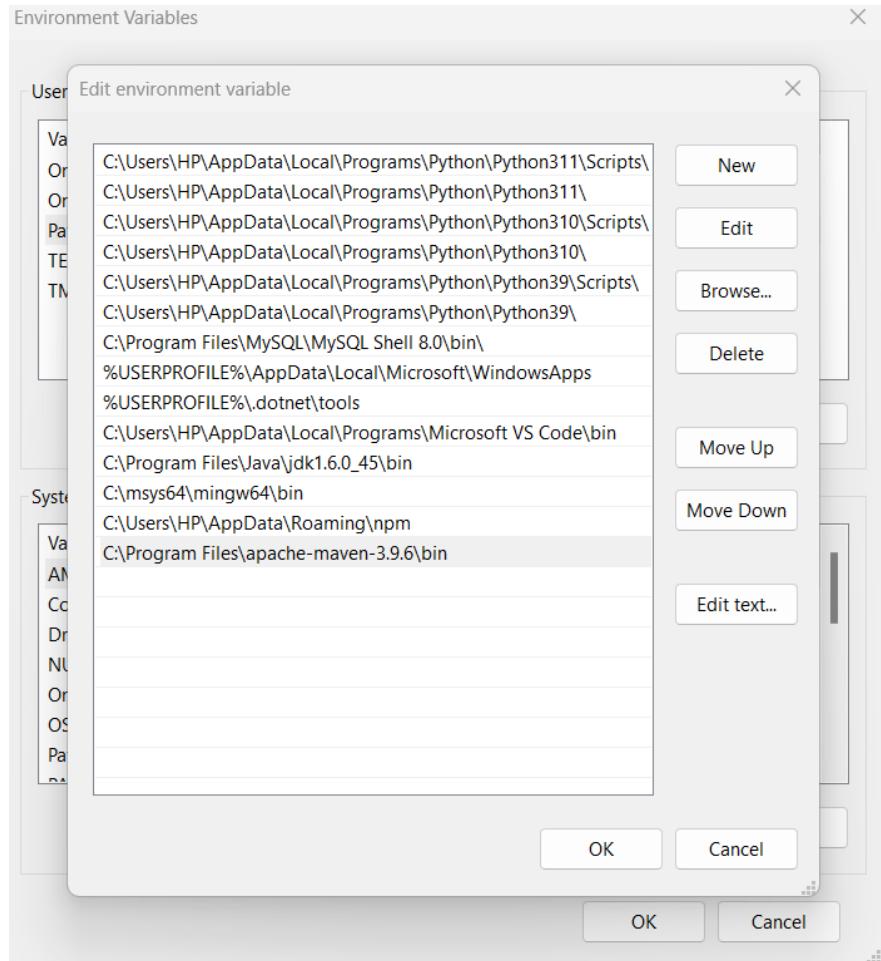
Extract the zip and put it in Program Files.

Copy the bin path to it and paste it in the Path and System Variables.

C:\Program Files\apache-maven-3.9.6\bin

Search and Open **Edit the System Environment Variables** and put it in path.





Click OK to confirm changes.

Then, check if Java and Maven exists in system.

```
Command Prompt + ▾
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

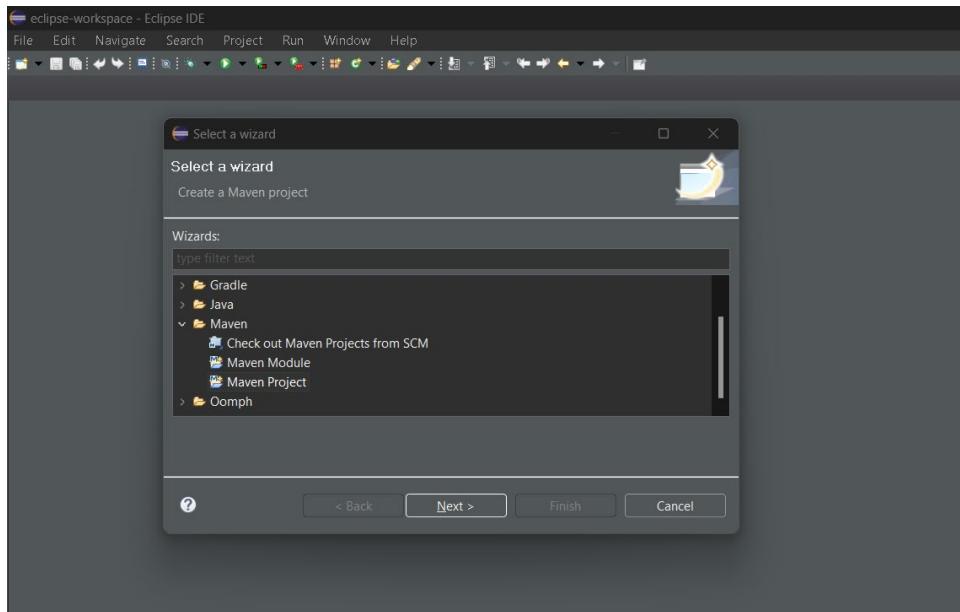
C:\Users\HP>java -version
java version "1.8.0_401"
Java(TM) SE Runtime Environment (build 1.8.0_401-b10)
Java HotSpot(TM) Client VM (build 25.401-b10, mixed mode, sharing)

C:\Users\HP>mvn -version
Apache Maven 3.9.6 (bc0240f3c744dd6b6ec2920b3cd08dcc295161ae)
Maven home: C:\Program Files\apache-maven-3.9.6
Java version: 1.8.0_401, vendor: Oracle Corporation, runtime: C:\Program Files (x86)\Java\jre-1.8
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 11", version: "10.0", arch: "x86", family: "windows"

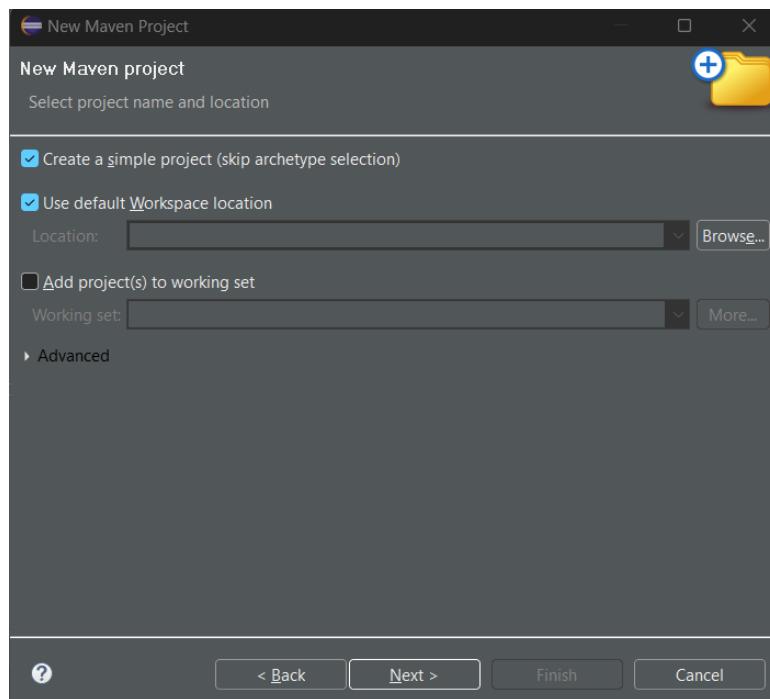
C:\Users\HP>
```

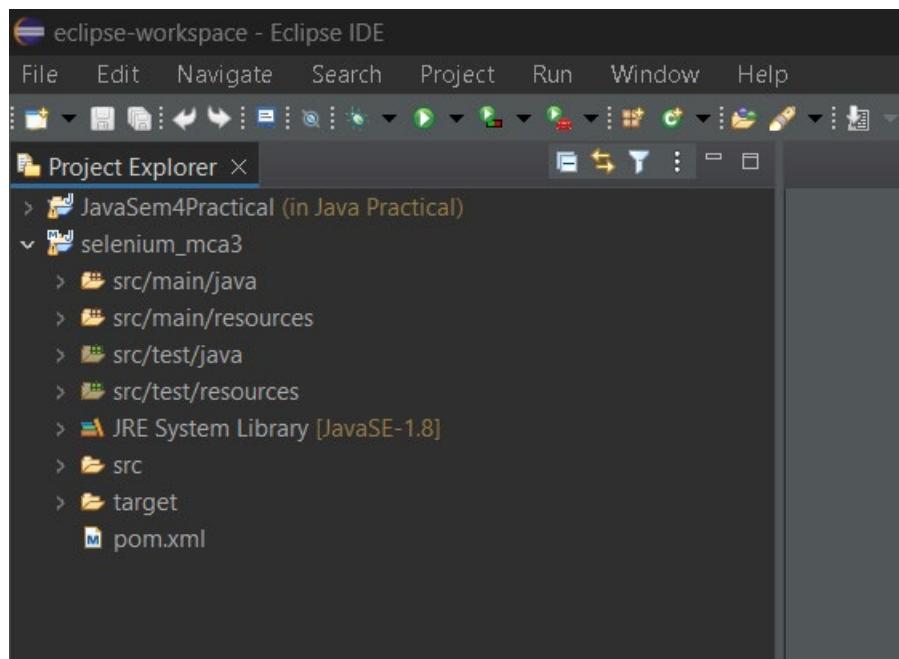
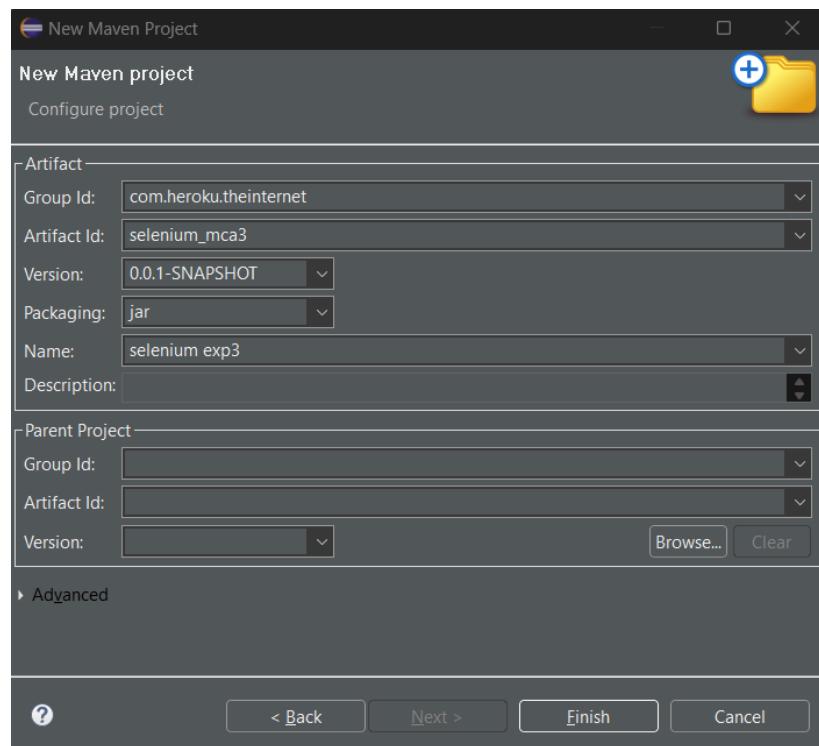
Download Eclipse IDE and install it.

Then go and select. Create new Maven Project.



Select Create a Simple Project.





Project Has been created.

Now we add the required dependencies and plugins in **pom.xml** file.

```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.herokuapp.theinternet</groupId>
  <artifactId>selenium_mca3</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>selenium_exp3</name>
</project>

```

Change all http to https.

<https://maven.apache.org/plugins/maven-compiler-plugin/examples/set-compiler-source-and-target.html>

following properties, which are the default property names for the plugin parameters:

```

1. <project>
2. [...]
3. <properties>
4.   <maven.compiler.source>1.8</maven.compiler.source>
5.   <maven.compiler.target>1.8</maven.compiler.target>
6. </properties>
7. [...]
8. </project>

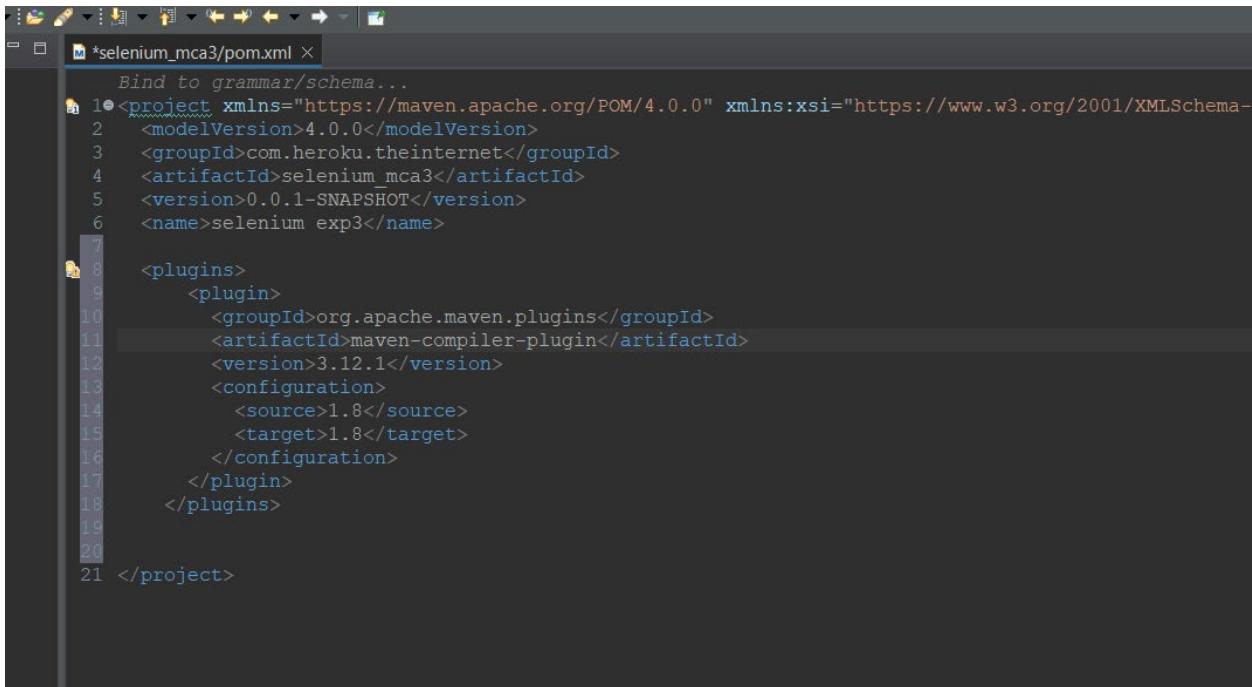
```

or configure the plugin directly:

```

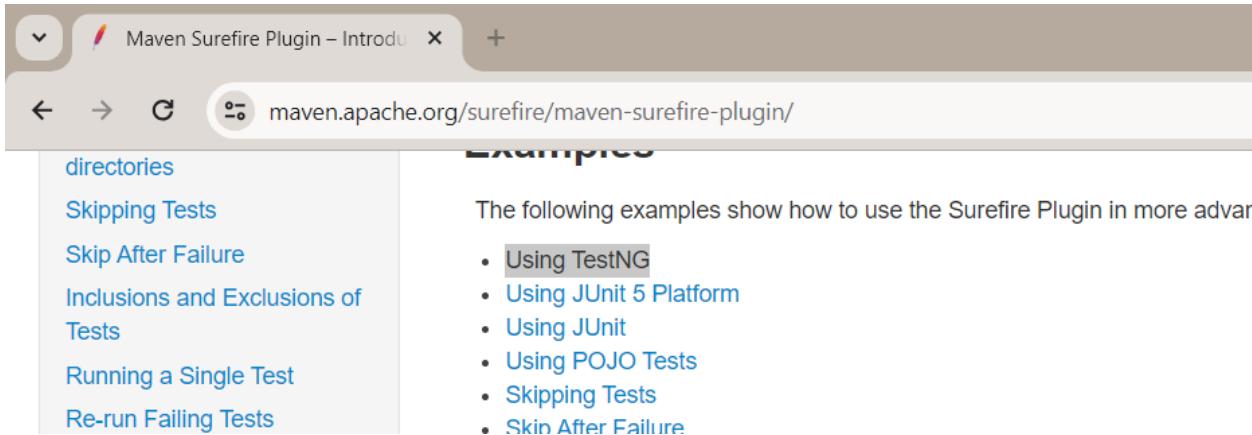
1. <project>
2. [...]
3. <build>
4. [...]
5. <plugins>
6.   <plugin>
7.     <groupId>org.apache.maven.plugins</groupId>
8.     <artifactId>maven-compiler-plugin</artifactId>
9.     <version>3.12.1</version>
10.    <configuration>
11.      <source>1.8</source>
12.      <target>1.8</target>
13.    </configuration>
14.  </plugin>
15. </plugins>
16. [...]
17. </build>

```



```
Bind to grammar/schema...
1<project xmlns="https://maven.apache.org/POM/4.0.0" xmlns:xsi="https://www.w3.org/2001/XMLSchema-...
2  <modelVersion>4.0.0</modelVersion>
3  <groupId>com.herokuapp.theinternet</groupId>
4  <artifactId>selenium_mca3</artifactId>
5  <version>0.0.1-SNAPSHOT</version>
6  <name>selenium exp3</name>
7
8  <plugins>
9    <plugin>
10      <groupId>org.apache.maven.plugins</groupId>
11      <artifactId>maven-compiler-plugin</artifactId>
12      <version>3.12.1</version>
13      <configuration>
14        <source>1.8</source>
15        <target>1.8</target>
16      </configuration>
17    </plugin>
18  </plugins>
19
20
21 </project>
```

<https://maven.apache.org/surefire/maven-surefire-plugin/examples/testng.html>



Maven Surefire Plugin – Introduction

maven.apache.org/surefire/maven-surefire-plugin/

examples

directories

- Skipping Tests
- Skip After Failure
- Inclusions and Exclusions of Tests
- Running a Single Test
- Re-run Failing Tests

The following examples show how to use the Surefire Plugin in more advanced ways:

- Using TestNG
- Using JUnit 5 Platform
- Using JUnit
- Using POJO Tests
- Skipping Tests
- Skin After Failure

Maven Surefire Plugin – Using

maven.apache.org/surefire/maven-surefire-plugin/examples/testng.html

Debugging Tests
 Using System Properties
 Configuring the Classpath
 Selecting Providers
 New Error Summary
 Multi-lined Exception Messages
 Fork Options and Parallel Test Execution
 Using Console Logs
 Shutdown of Forked JVM
 Run tests with Java 9
 Run tests in Docker
 Run tests in a different JVM using toolchains

PROJECT DOCUMENTATION
[Project Information](#)

Using Suite XML Files

Another alternative is to use TestNG suite XML files. This allows flexible configuration:

```

1. <plugins>
2.   [...]
3.     <plugin>
4.       <groupId>org.apache.maven.plugins</groupId>
5.       <artifactId>maven-surefire-plugin</artifactId>
6.       <version>3.2.5</version>
7.       <configuration>
8.         <suiteXmlFiles>
9.           <suiteXmlFile>testng.xml</suiteXmlFile>
10.          </suiteXmlFiles>
11.        </configuration>
12.      </plugin>
13.    [...]
14.  </plugins>
```

This configuration will override the includes and excludes patterns and run all tests

```

<project xmlns="https://maven.apache.org/POM/4.0.0" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="https://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.heroku.theinternet</groupId>
  <artifactId>selenium_mca3</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>selenium exp3</name>

  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.12.1</version>
      <configuration>
        <source>21</source>
        <target>21</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.2.5</version>
    </plugin>
  </plugins>
</project>
```

Outline X

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Problems Javadoc Declaration Console Progress

<https://mvnrepository.com/artifact/org.testng/testng/7.9.0>

Maven Repository: org.testng > mvnrepository.com/artifact/org.testng/testng/7.9.0

Popular Categories

- Testing Frameworks & Tools
- Android Packages
- Logging Frameworks
- Java Specifications
- JSON Libraries
- JVM Languages
- Language Runtime
- Core Utilities
- Mocking
- Web Assets
- Annotation Libraries
- HTTP Clients
- Logging Bridges
- Dependency Injection
- XML Processing
- Web Frameworks
- I/O Utilities

License	Apache 2.0
Categories	Testing Frameworks & Tools
Tags	testing testng quality
HomePage	https://testng.org
Date	Dec 26, 2023
Files	pom (2 KB) jar (1011 KB) View All
Repositories	Central
Ranking	#51 in MvnRepository (See Top Artifacts) #6 in Testing Frameworks & Tools
Used By	11,449 artifacts

Maven Gradle Gradle (Short) Gradle (Kotlin) SBT Ivy Grape Leiningen Build

```
<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.9.0</version>
    <scope>test</scope>
</dependency>
```

Include comment with link to declaration

Copied to clipboard!

```
*selenium_mca3/pom.xml *
Bind to grammar/schema...
1<project xmlns="https://maven.apache.org/POM/4.0.0" xmlns:xsi="https://www.w3.org/2001/XMLSchema.xsd"
2  <modelVersion>4.0.0</modelVersion>
3  <groupId>com.herokuapp.theinternet</groupId>
4  <artifactId>selenium_mca3</artifactId>
5  <version>0.0.1-SNAPSHOT</version>
6  <name>selenium exp3</name>
7  <dependencies>
8      <dependency>
9          <groupId>org.testng</groupId>
10         <artifactId>testng</artifactId>
11         <version>7.9.0</version>
12         <scope>test</scope>
13     </dependency>
14 </dependencies>
15
16 <plugins>
17     <plugin>
18         <groupId>org.apache.maven.plugins</groupId>
19         <artifactId>maven-compiler-plugin</artifactId>
20         <version>3.12.1</version>
21         <configuration>
22             <source>1.8</source>
23             <target>1.8</target>
```

<https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java/4.17.0>

The screenshot shows the Maven Repository page for the artifact `org.seleniumhq.selenium/selenium-java/4.17.0`. The left sidebar lists 'Popular Categories' including Testing Frameworks & Tools, Android Packages, Logging Frameworks, Java Specifications, JSON Libraries, JVM Languages, Language Runtime, Core Utilities, Mocking, Web Assets, Annotation Libraries, HTTP Clients, Logging Bridges, Dependency Injection, and XML Processing. The main content area displays metadata for the artifact: License (Apache 2.0), Categories (Web Testing), Tags (quality, selenium, testing, web), HomePage (<https://selenium.dev/>), Date (Jan 23, 2024), Files (pom (4 KB), jar (545 bytes), View All), Repositories (Central), Ranking (#284 in MvnRepository, #1 in Web Testing), and Used By (1,696 artifacts). Below this is a code snippet of the Maven POM XML for the dependency, and a checkbox for 'Include comment with link to declaration'.

The screenshot shows a code editor displaying a Maven POM XML file named `pom.xml`. The code defines a project with group ID `com.herokuapp.theinternet`, artifact ID `selenium_mca_3`, version `0.0.1-SNAPSHOT`, and name `selenium_mca_3`. It includes dependencies for `org.testng` version `7.9.0` with scope `test`, and `org.seleniumhq.selenium` version `4.16.1` for `selenium-java`. The build section includes the `maven compiler plugin`.

```
<project xmlns="https://maven.apache.org/POM/4.0.0" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">
<modelVersion>4.0.0</modelVersion>
<groupId>com.herokuapp.theinternet</groupId>
<artifactId>selenium_mca_3</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>selenium_mca_3</name>
<dependencies>
    <!-- https://mvnrepository.com/artifact/org.testng/testng -->
    <dependency>
        <groupId>org.testng</groupId>
        <artifactId>testng</artifactId>
        <version>7.9.0</version>
        <scope>test</scope>
    </dependency>
    <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-java</artifactId>
        <version>4.16.1</version>
    </dependency>
</dependencies>
<build>
    <plugins>
        <!-- maven compiler plugin -->
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
```

```
<project xmlns="https://maven.apache.org/POM/4.0.0"
xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="https://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>com.herokuapp.theinternet</groupId>
    <artifactId>selenium_mca_3</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>selenium_mca_3</name>

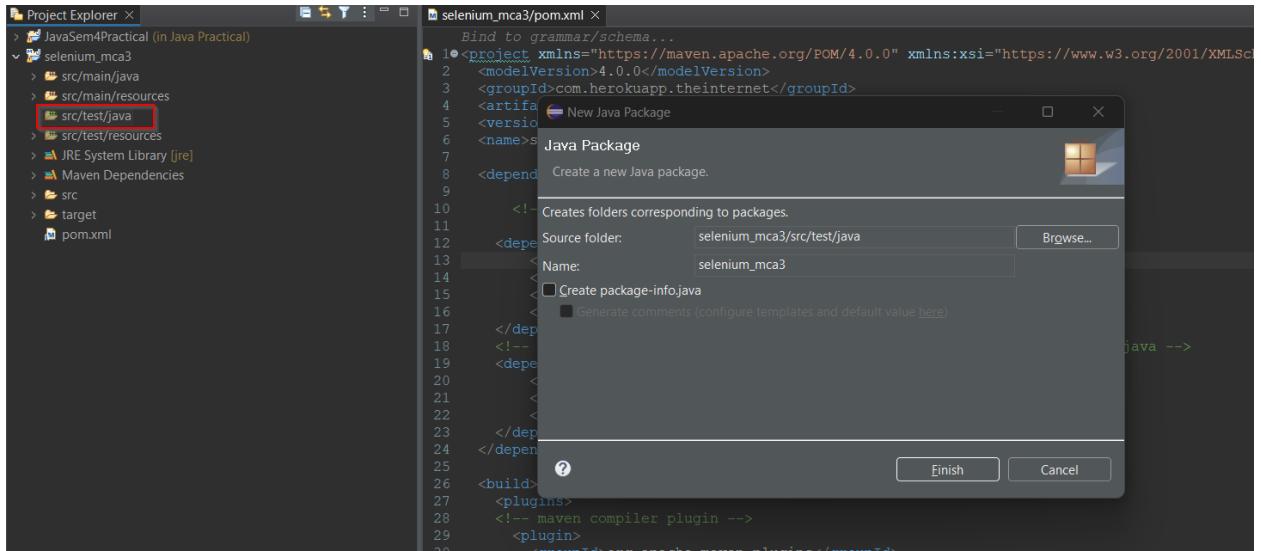
    <dependencies>

        <!-- https://mvnrepository.com/artifact/org.testng/testng -->

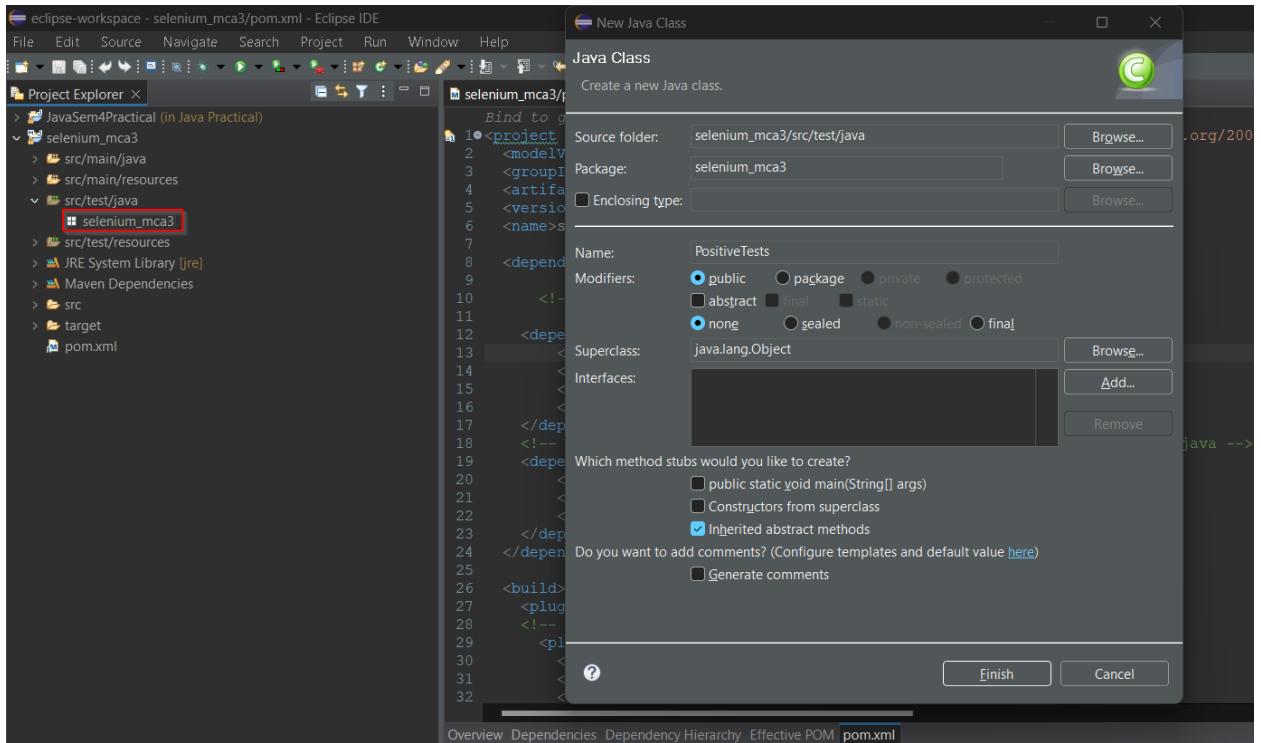
        <dependency>
            <groupId>org.testng</groupId>
            <artifactId>testng</artifactId>
            <version>7.9.0</version>
            <scope>test</scope>
        </dependency>
        <!--
https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
        <dependency>
            <groupId>org.seleniumhq.selenium</groupId>
            <artifactId>selenium-java</artifactId>
            <version>4.16.1</version>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <!-- maven compiler plugin -->
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.12.1</version>
                <configuration>
                    <source>21</source>
                    <target>21</target>
                </configuration>
            </plugin>
            <!-- maven surefire plugin -->
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-surefire-plugin</artifactId>
                <version>3.2.5</version>
            </plugin>
        </plugins>
    </build>
</project>
```

Then create a new package in **/src/test/java**



Then create a new class name **PositiveTests**



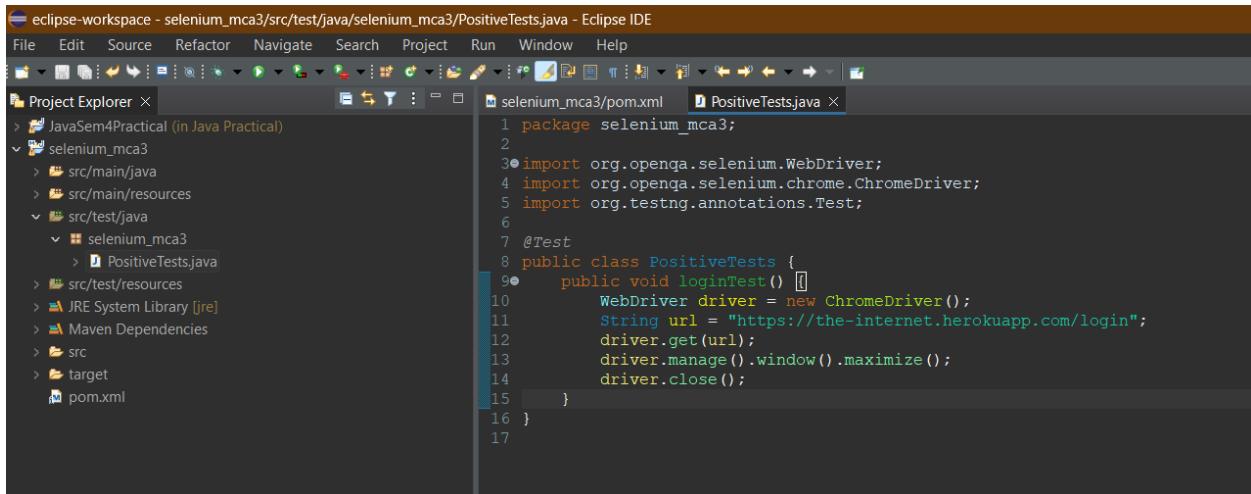
Now in **PositiveTests.java** we code the following.

```
package selenium_mca3;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

@Test
public class PositiveTests {
    public void loginTest() {
        WebDriver driver = new ChromeDriver();
        String url = "https://the-internet.herokuapp.com/login";
        driver.get(url);
        driver.manage().window().maximize();
        driver.close();
    }
}
```

We then save everything and will check if our build is successful or not.



To check we run **mvn clean test**

```
C:\Users\HP>cd eclipse-workspace
C:\Users\HP\eclipse-workspace>dir
 Volume in drive C is Windows
 Volume Serial Number is 9C86-D6F3

 Directory of C:\Users\HP\eclipse-workspace

02-02-2024  21:58    <DIR>          .
02-02-2024  21:58    <DIR>          ..
02-02-2024  22:48    <DIR>          .metadata
02-02-2024  21:59    <DIR>          selenium_mca3
              0 File(s)            0 bytes
              4 Dir(s)  11,708,002,304 bytes free

C:\Users\HP\eclipse-workspace>cd selenium_mca3
C:\Users\HP\eclipse-workspace\selenium_mca3>mvn clean test
```

Assignment-04

Name-Piyush Verma || RegNo-23MCA1104

Topic: Perform web testing using selenium and Perform

- Searching URLs
- Logout button
- The text content

CODE

```
package com.herokuapp.theinternet;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.Test;

@Test
public class PositiveTest {

    public void loginTest() {
        // Creating a new instance of ChromeDriver
        WebDriver driver = new ChromeDriver();
        // Assigning the URL to a string variable
        String url = "https://the-internet.herokuapp.com/login";
        // Navigating to the URL
        driver.get(url);
```

```
// Maximizing the browser window  
  
driver.manage().window().maximize();  
  
// Sleeping for 2 seconds  
  
sleep(2);  
  
  
// Locating the username field using XPath and sending keys  
  
WebElement username =  
driver.findElement(By.xpath("//html//input[@id='username']"));  
  
username.sendKeys("tomsmith");  
  
// Locating the password field using XPath and sending keys  
  
WebElement password =  
driver.findElement(By.xpath("//html//input[@id='password']"));  
  
password.sendKeys("SuperSecretPassword!");  
  
// Sleeping for 2 seconds  
  
sleep(2);  
  
// Locating the login button using XPath and clicking  
  
WebElement loginbtn = driver.findElement(By.xpath("//form[@id='login']//i[@class='fa fa-2x fa-sign-in']"));  
  
loginbtn.click();  
  
  
// Assigning the expected URL to a string variable  
  
String expectedurl = "https://the-internet.herokuapp.com/secure";  
  
// Assigning the current URL to a string variable  
  
String actualurl = driver.getCurrentUrl();  
  
  
// Checking if the actual URL matches the expected URL  
  
Assert.assertEquals(actualurl, expectedurl, "The URL is not the same as expected");
```

```
// Sleeping for 5 seconds
sleep(5);

// Printing a success message
System.out.println("The program executed successfully");

// Navigating to the expected URL
driver.get(expectedurl);

// Locating the logout button using class name and checking if it is displayed
WebElement logoutbtn = driver.findElement(By.className("icon-signout"));

Assert.assertTrue(logoutbtn.isDisplayed(), "logout");

// Printing that the logout button was found
System.out.println(logoutbtn+ "logout found");

// Closing the browser
driver.close();

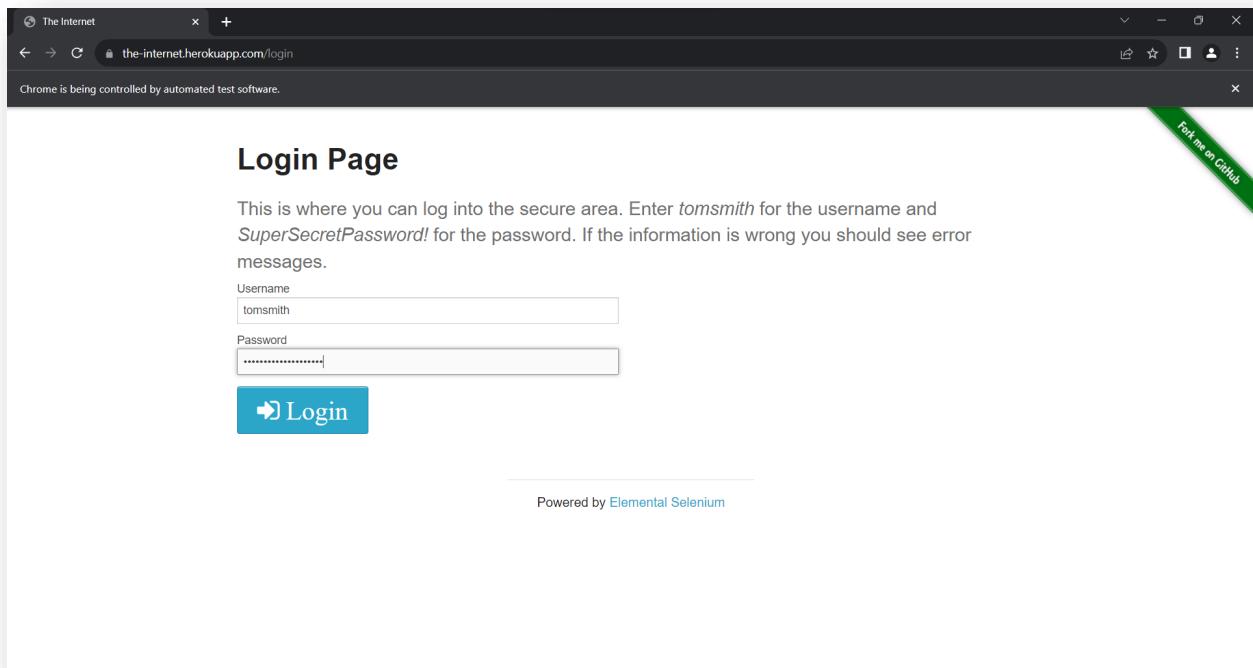
}

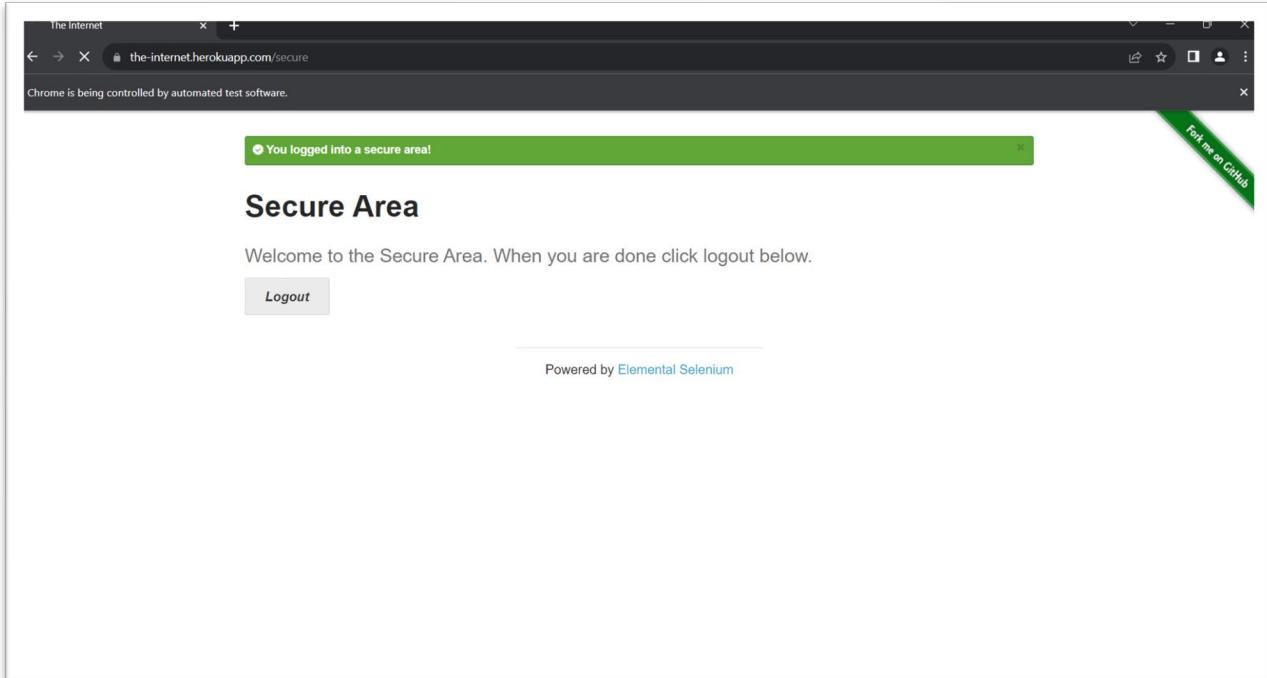
private void sleep(int sec) {
    try {
        // Sleeping for the specified number of seconds
        Thread.sleep(sec * 1000);
    } catch (InterruptedException e) {
        e.printStackTrace();
    }
}
```

}

}

OUTPUT





```
Command Prompt
[INFO] --- compiler:3.12.1:compile (default-compile) @ selenium_mca_3 ---
[INFO] Nothing to compile - all classes are up to date.
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ selenium_mca_3 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src\test\resources to target\test-classes
[INFO]
[INFO] --- compiler:3.12.1:testCompile (default-testCompile) @ selenium_mca_3 ---
[INFO] Recompiling the module because of changed source code.
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
[INFO] Compiling 1 source file with javac [debug target 21] to target\test-classes
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ selenium_mca_3 ---
[INFO] Using auto detected provider org.apache.maven.surefire.testng.TestNGProvider
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.herokuapp.theinternet.PositiveTest
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.
The program executed successfully
[[ChromeDriver: chrome on windows (a8895492d0399f4ae417557bdf8a5af)] -> class name: icon-signout]logout found
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 17.78 s -- in com.herokuapp.theinternet.PositiveTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 19.789 s
[INFO] Finished at: 2024-02-09T12:58:34+05:30
[INFO] -----
```

C:\Users\student\eclipse-workspace\selenium_mca_3>A

EXERCISE 5

Piyush Verma

||

23mca1104

Code-

```
package com.herokuapp.theinternet;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

@Test
public class positiveTest {

    public void loginTest() throws IOException, InterruptedException {
        WebDriver driver=new ChromeDriver();
        String url="http://testphp.vulnweb.com/login.php";
        driver.get(url);
        driver.manage().window().maximize();
        sleep(2); // Slow down
        WebElement
username=driver.findElement(By.xpath("//div[@id='content']/div[1]/form[@name='loginform']/table//input[@name='uname']"));
        username.sendKeys("test");

        WebElement
password=driver.findElement(By.xpath("//div[@id='content']/div[1]/form[@name='loginform']/table//input[@name='pass']"));
        password.sendKeys("test");
        sleep(2); // Slow down
        WebElement
loginbtn=driver.findElement(By.xpath("//div[@id='content']//form[@name='loginform']/table/tbody/tr[3]/td/input[@value='login']"));
        loginbtn.click();
        System.out.println("The Test Executed Successfully");
        BufferedReader reader = new BufferedReader(new
FileReader("C://Users//91955//OneDrive//Desktop//data.txt"));
        String line = reader.readLine();
        String[] content = line.split(",");
        WebElement field1_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/table//input[@name='urname']"));
        WebElement field2_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/table//input[@name='ucc']"));
        WebElement field3_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/table//input[@name='uemail']"));
        WebElement field4_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/table//input[@name='uphone']"));

    }
}
```

```

        WebElement field5_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']//textarea[@name='uaddress']"));
        field1_input.sendKeys(content[0]);
        field2_input.sendKeys(content[1]);
        field3_input.sendKeys(content[2]);
        field4_input.sendKeys(content[3]);
        field5_input.sendKeys(content[4]);
        WebElement
submit_btn=driver.findElement(By.xpath("//div[@id='content']//form[@name='form1']//table/tbody/tr[6]/td/input[@name='update']"));
        submit_btn.click();
        reader.close();
        driver.close();}

    private void sleep(int sec) {
        try {
            Thread.sleep(sec * 1000);
        }
        catch (InterruptedException e) {
            e.printStackTrace();
        }
    }
}

```

Output-

```

C:\Users\91955\eclipse-workspace\ex1>mvn clean test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.herokuapp.theinternet:ex1 >-----
[INFO] Building selenium 0.0.1-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ ex1 ---
[INFO] Deleting C:\Users\91955\eclipse-workspace\ex1\target
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ ex1 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src\main\resources to target\classes
[INFO]
[INFO] --- compiler:3.12.1:compile (default-compile) @ ex1 ---
[INFO] Nothing to compile - all classes are up to date.
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ ex1 ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src\test\resources to target\test-classes
[INFO]
[INFO] --- compiler:3.12.1:testCompile (default-testCompile) @ ex1 ---
[INFO] Recompiling the module because of changed source code.
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
[INFO] Compiling 1 source file with javac [debug target 21] to target\test-classes
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ ex1 ---
[INFO] Using auto detected provider org.apache.maven.surefire.testng.TestNGProvider
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.heroku.theinternet.positiveTest
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.
The Test Executed Successfully
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 11.54 s -- in com.heroku.theinternet.positiveTest
[INFO] Results:

```

```
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 11.54 s -- in com.herokuapp.theinternet.positiveTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 14.554 s
[INFO] Finished at: 2024-03-01T16:17:15+05:30
[INFO] -----
```

Chrome is being controlled by automated test software.



TEST and Demonstration site for Acunetix Web Vulnerability Scanner

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[PHP scanner](#)

[PHP vuln help](#)

[Fractal Explorer](#)



Vinayakjakejake (test)

On this page you can visualize or edit your user information.

Name:	<input type="text" value="Vinayakjakejakejake"/>
Credit card number:	<input type="text" value="9630-5768-4830-45459993-3232-6789"/>
E-Mail:	<input type="text" value="Vinayaksingh762@gmail.comjake123@u"/>
Phone number:	<input type="text" value="96305768489876599403987659940398"/>
Address:	<input type="text" value="D1 723 Boys Hostel d1 test address d1 test address d1 test address"/>

You have 9 items in your cart. You visualize your cart [here](#).

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It is intended to help you test Acunetix. It also helps you understand how developer errors and bad configuration may let someone break into your website. You can use it to test other tools and your manual hacking skills as well. Tip: Look for potential SQL Injections, Cross-site Scripting (XSS), and Cross-site Request Forgery (CSRF), and more.

Exercise – 06 (Penetration Testing)

Name: Piyush Verma

Reg No: 23MCA1104

Question 1: 1. What is the name of users IM buddy?

Answer 1: (**Sec558user1** is the name of the users IM buddy)

The screenshot shows a Wireshark window titled "Wireshark · Follow TCP Stream (tcp.stream eq 2) · evidence01.pcap". The main pane displays a conversation between two users. The client's messages are in blue, and the server's messages are in orange. The conversation starts with a secret message and ends with an HTML message.

```
*...`...*.a.....E4628778....Sec558user1.....Here's  
the secret recipe... I just downloaded it from the file server. Just c  
opy to a thumb drive and you're good to go &gt;:-)...*..b.".....F  
.....Sec558user1..*.V.....  
....*.A.....E.....P.....p...p.....P.....  
.....p...p.&.'.....U4.....  
.....|.....h.....p...@.&.'.....  
....|.....h.....p...@.&.'.*.V.....E4628778....Sec558user1*..  
c.z.....G7174647....Sec558user1.....R..7174647. F.CL...."DEST.  
.....F.....  
.....'.....recipe.docx.*.V.....  
....*.c.....G.....P.....p...p..._w.....P.....  
.....p...p.&a.....  
.....U.....|.....h.....p...@.&a.....  
....|.....h.....p...@.&a.....*.V.....G7174647....Sec558us  
er1*.V..{.....*..7174647....Sec558user1.....J.H.....+..  
1n....+..0.....J.....7174647. F.CL...."DEST.....*.V..  
".....*.1.....Sec558user1..*.V.....*.y..N....w...Sec558us  
er1.....J.H.....+..1n....+..0.....J.....a.....  
.X....<HTML><BODY><FONT FACE="Arial" SIZE=2 COLOR=#000000>thanks dude<  
/FONT></BODY></HTML>.  
.....+..1n....+..0.....*.V..".....*.Sec558user1..*  
.V.....+.....Q.....L.....Sec558user1.....J.H.....  
..+..1n....+..0.....J.....s.....j....<HTML><BODY><FONT FAC  
E="Arial" SIZE=2 COLOR=#000000>can't wait to sell it on ebay</FONT></B  
ODY></HTML>.
```

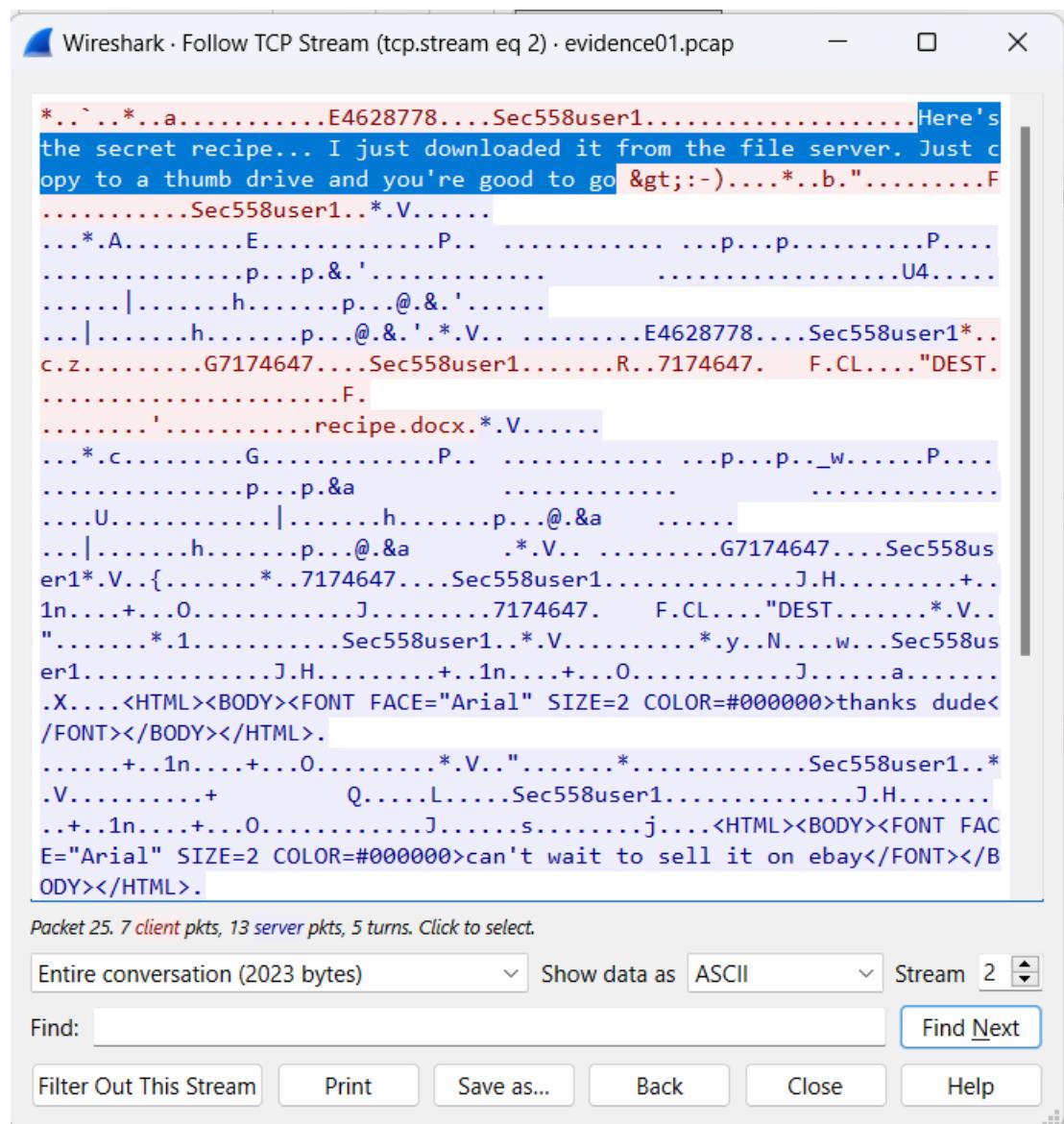
7 client pkts, 13 server pkts, 5 turns.

Entire conversation (2023 bytes) Show data as ASCII Stream 2 Find Next

Find: Filter Out This Stream Print Save as... Back Close Help

Question 2. What was the first comment in the captured IM conversation?

Answer 2 : (Here's the secret recipe... I just downloaded it from the file server.
Just copy to a thumb drive and you're good to go)



The screenshot shows a Wireshark window titled "Wireshark · Follow TCP Stream (tcp.stream eq 2) · evidence01.pcap". The main pane displays a TCP stream with ASCII and hex representations. A specific message is highlighted in blue:

```
*...`...*..a.....E4628778....Sec558user1.....Here's  
the secret recipe... I just downloaded it from the file server. Just c  
opy to a thumb drive and you're good to go &gt;:-)...*..b.".....F  
.....Sec558user1..*.V.....  
...*.A.....E.....P.....p...p.....P.....  
.....p..p.&.'.....U4.....  
.....|.....h.....p...@.&.'.....  
.....|.....h.....p...@.&.'.*.V.....E4628778....Sec558user1*..  
c.z.....G7174647....Sec558user1.....R..7174647. F.CL...."DEST.  
.....F.....  
.....'.....recipe.docx.*.V.....  
...*.c.....G.....P.....p...p..._w.....P.....  
.....p..p.&a.....  
.....U.....|.....h.....p...@.&a.....  
.....|.....h.....p...@.&a.....*.V.....G7174647....Sec558us  
er1*.V..{.....*..7174647....Sec558user1.....J.H.....+..  
1n....+...0.....J.....7174647. F.CL...."DEST.....*.V..  
".....*.1.....Sec558user1..*.V.....*.y..N....w..Sec558us  
er1.....J.H.....+..1n....+...0.....J.....a.....  
.X....<HTML><BODY><FONT FACE="Arial" SIZE=2 COLOR=#000000>thanks dude<  
/FONT></BODY></HTML>.  
.....+..1n....+...0.....*.V..".....*.V.....Sec558user1..*  
.V.....+.....Q.....L.....Sec558user1.....J.H.....  
...+..1n....+...0.....J.....s.....j....<HTML><BODY><FONT FAC  
E="Arial" SIZE=2 COLOR=#000000>can't wait to sell it on ebay</FONT></B  
ODY></HTML>.
```

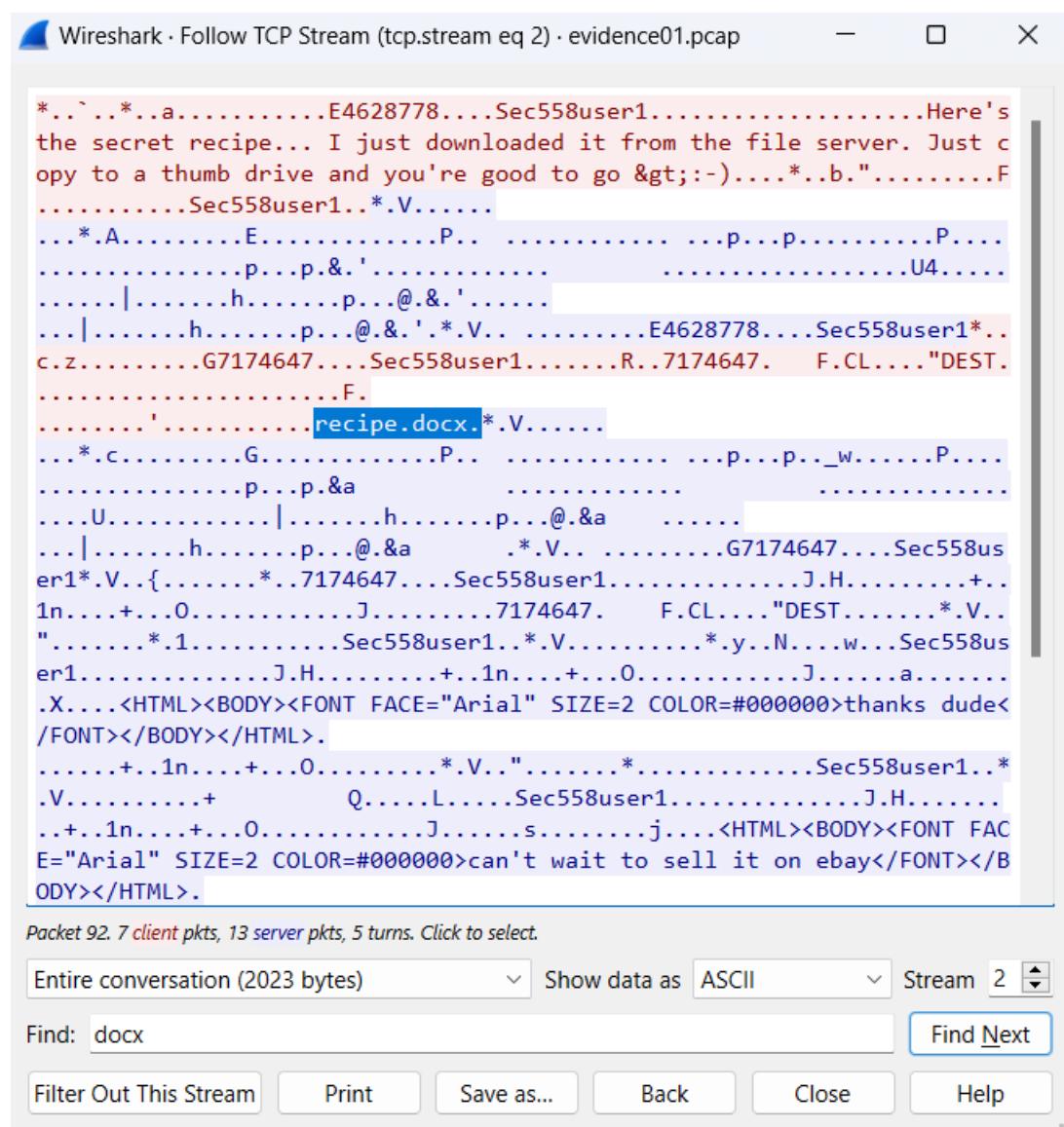
Packet 25. 7 client pkts, 13 server pkts, 5 turns. Click to select.

Entire conversation (2023 bytes) Show data as ASCII Stream 2 Find Next

Find: Filter Out This Stream Print Save as... Back Close Help

Question 3: What is the name of the file transferred?

Answer 3: **recipe.docx**



The screenshot shows a Wireshark window titled "Wireshark · Follow TCP Stream (tcp.stream eq 2) · evidence01.pcap". The main pane displays an ASCII dump of a TCP stream. A specific line of text, "recipe.docx.*.V.....", is highlighted in blue, indicating it is the transferred file. The text content includes a secret recipe message and file transfer details.

```
*...`...*.a.....E4628778....Sec558user1.....Here's  
the secret recipe... I just downloaded it from the file server. Just c  
opy to a thumb drive and you're good to go >:-)....*..b.".....F  
.....Sec558user1...*.V.....  
....*.A.....E.....P.....p.....p.....P.....  
.....p.....p.&'.....U4.....  
.....|.....h.....p...@.&'.  
.....|.....h.....p...@.&'.*.V.....E4628778....Sec558user1*..  
c.z.....G7174647....Sec558user1.....R..7174647. F.CL...."DEST.  
.....F.  
.....'|.....recipe.docx.*.V.....  
....*.c.....G.....P.....p.....p._w.....P.....  
.....p.....p.&a.....  
....U.....|.....h.....p...@.&a.....  
.....|.....h.....p...@.&a.....*.V.....G7174647....Sec558us  
er1*.V..{.....*..7174647....Sec558user1.....J.H.....+..  
1n.....+..0.....J.....7174647. F.CL...."DEST.....*.V..  
".....*.1.....Sec558user1...*.V.....*.y...N....w....Sec558us  
er1.....J.H.....+..1n....+..0.....J.....a.....  
.X....<HTML><BODY><FONT FACE="Arial" SIZE=2 COLOR=#000000>thanks dude</FONT></BODY></HTML>.  
.....+..1n....+..0.....*.V..".....*.....Sec558user1...*  
.V.....+.....Q.....L.....Sec558user1.....J.H.....  
..+..1n....+..0.....J.....s.....j....<HTML><BODY><FONT FAC  
E="Arial" SIZE=2 COLOR=#000000>can't wait to sell it on ebay</FONT></B  
ODY></HTML>.
```

Packet 92. 7 client pkts, 13 server pkts, 5 turns. Click to select.

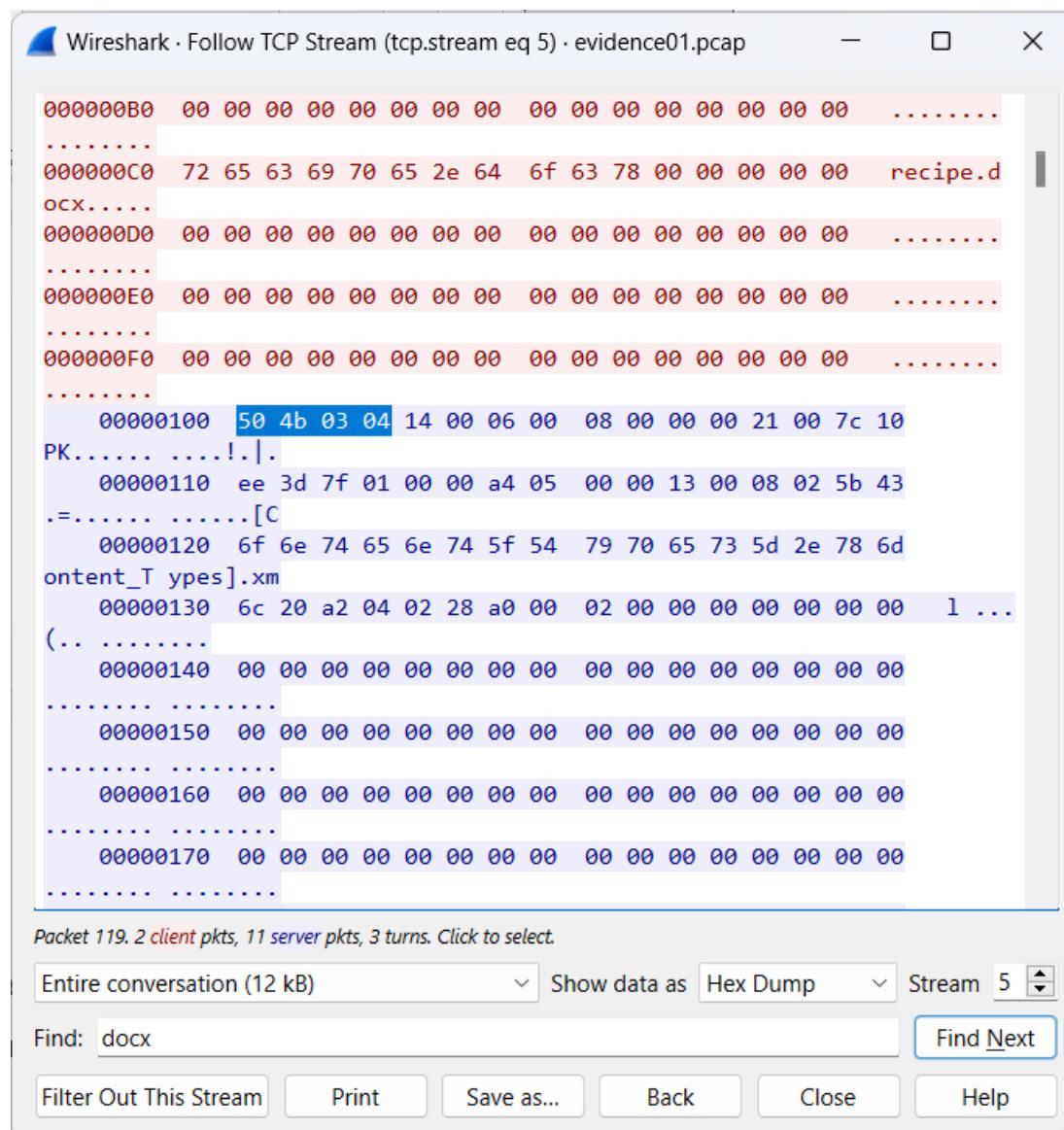
Entire conversation (2023 bytes) Show data as Stream 2

Find: docx Find Next

Filter Out This Stream Print Save as... Back Close Help

Question 4: What is the magic number of the file you want to extract (first four bytes)

Answer 4: 50 4b 03 04



Wireshark - Follow TCP Stream (tcp.stream eq 5) · evidence01.pcap

Hex	Dec	ASCII
000000B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000000C0	72 65 63 69 70 65 2e 64 6f 63 78 00 00 00 00 00	recipe.d ocx.....
000000D0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000000E0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000000F0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000100	50 4b 03 04 14 00 06 00 08 00 00 00 21 00 7c 10	PK..... ! .
00000110	ee 3d 7f 01 00 00 a4 05 00 00 13 00 08 02 5b 43	=..... [C
00000120	6f 6e 74 65 6e 74 5f 54 79 70 65 73 5d 2e 78 6d	ontent_T ypes].xm
00000130	6c 20 a2 04 02 28 a0 00 02 00 00 00 00 00 00 00	1 ...
00000140	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000150	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000160	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000170	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Packet 119. 2 client pkts, 11 server pkts, 3 turns. Click to select.

Entire conversation (12 kB) Show data as Hex Dump Stream 5 Find Next

Find: docx Filter Out This Stream Print Save as... Back Close Help

Question 5: What was the MD5sum of the file?

Answer 5: **7e8cea99c4bf1bdbd87fa4cbe166bc18**

```
MD5 hash of Hex.docx:  
7e8cea99c4bf1bdbd87fa4cbe166bc18  
CertUtil: -hashfile command completed successfully.
```

Question 6: What is the secret recipe?

Answer 6: download the file as docx and then open

Recipe for Disaster:

1 serving

Ingredients:

4 cups sugar

2 cups water

In a medium saucepan, bring the water to a boil. Add sugar. Stir gently over low heat until sugar is fully dissolved. Remove the saucepan from heat. Allow to cool completely. Pour into gas tank. Repeat as necessary.

Ex: 5 (Penetration testing: wire shark monitoring the internet)

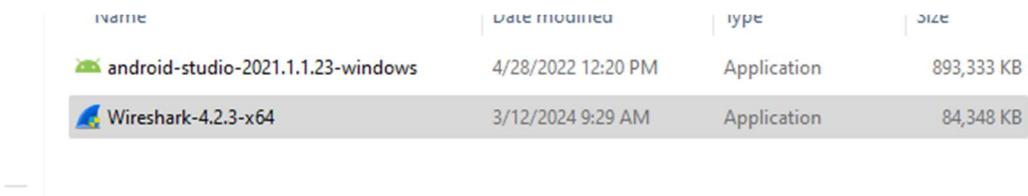
Name: Piyush Verma

Reg No: 23MCA1104

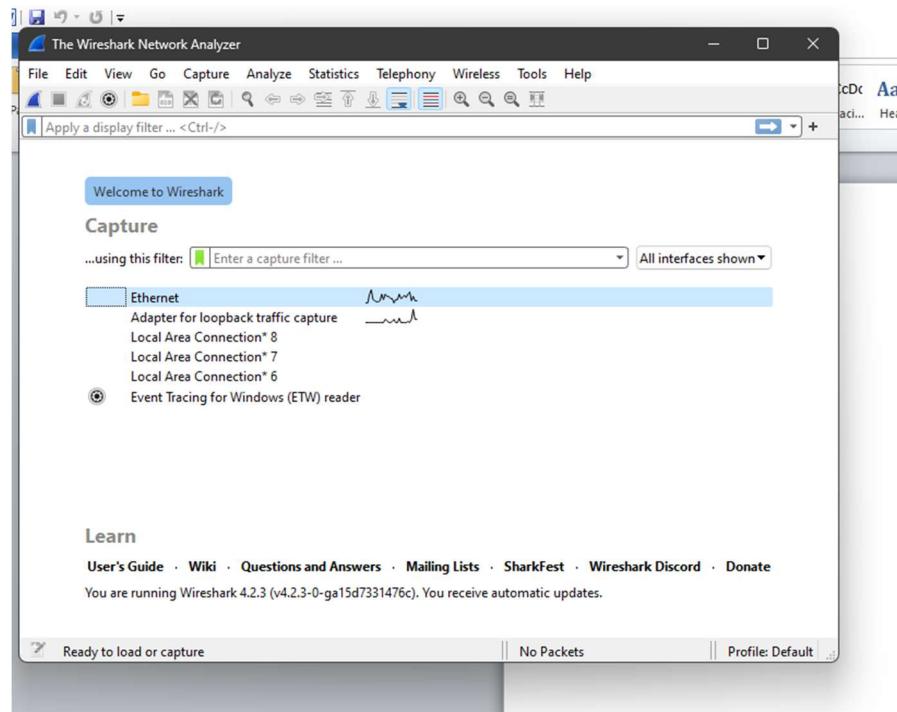
Aim: to perform packet analysis using wire shark.

Steps:

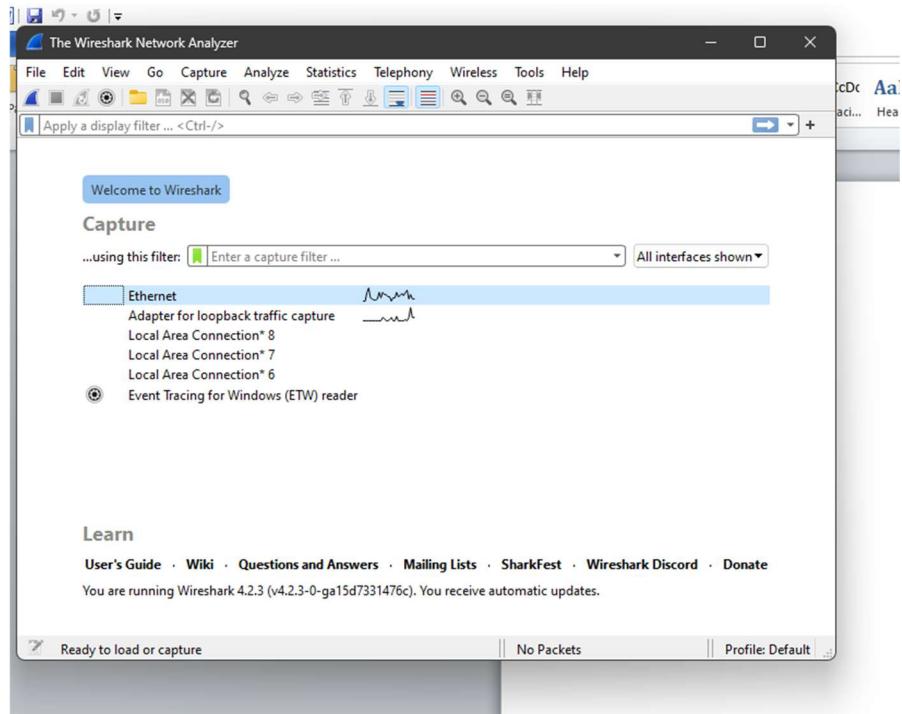
Step 1: Install wire shark



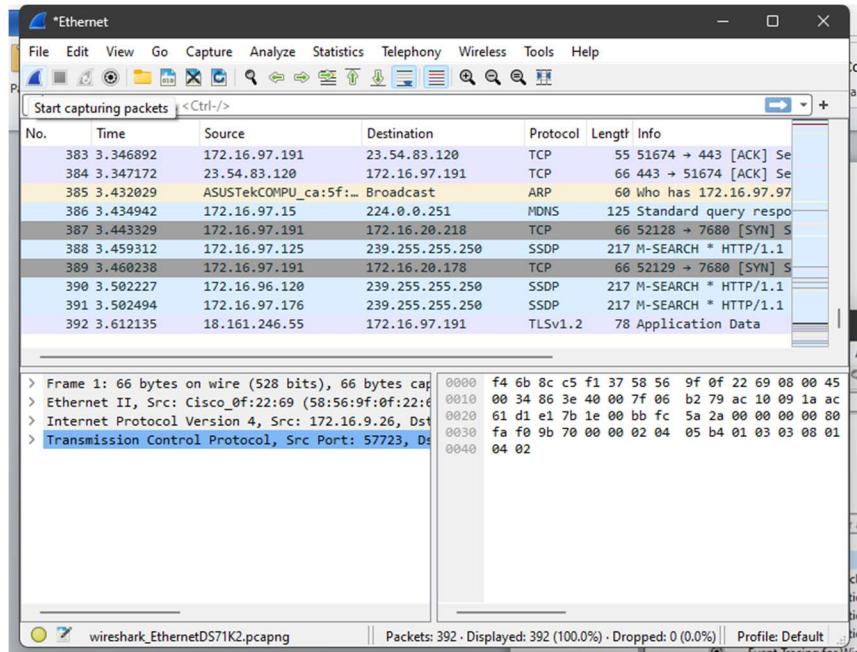
Step 2: Open wire shark



Step 3: Choose the adapter



Step 4: Start the packet recording



Step 5: Open testphp and recording is running behind this and see the network communication

The screenshot shows a web browser window with the following details:

- Address Bar:** Home of Acunetix Art - Not secure testphp.vulnweb.com
- Page Title:** acunetix acuart
- Header:** TEST and Demonstration site for **Acunetix Web Vulnerability Scanner**
- Navigation:** home | categories | artists | disclaimer | your cart | guestbook | AJAX Demo
- Left Sidebar (Search & Links):**
 - search art go
 - Browse categories
 - Browse artists
 - Your cart
 - Signup
 - Your profile
 - Our guestbook
 - AJAX Demo

Links

 - Security art
 - PHP scanner
 - PHP vuln help
 - Fractal Explorer
- Main Content:** welcome to our page
Test site for Acunetix WVS.
- Footer:** About Us | Privacy Policy | Contact Us | Shop | HTTP Parameter Pollution | ©2019 Acunetix Ltd
- Warning Message (in a grey box):**

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Step 6: fill the form and click update

user info

Not secure testphp.vulnweb.com/userinfo.php

acunetix acuart

TEST and Demonstration site for Acunetix Web Vulnerability Scanner

home | categories | artists | disclaimer | your cart | guestbook | AJAX Demo | Logout test

search art go

Browse categories
Browse artists
Your cart
Signup
Your profile
Our guestbook
AJAX Demo
Logout

Links
Security art
PHP scanner
PHP vuln help
Fractal Explorer

ABC XYZ (test)

Name: ABC XYZ

Credit card number: 9999 9999 9999 9999

E-Mail: ABCXYZ@gmail.com

Phone number: 9999999999

Address: Chennai India

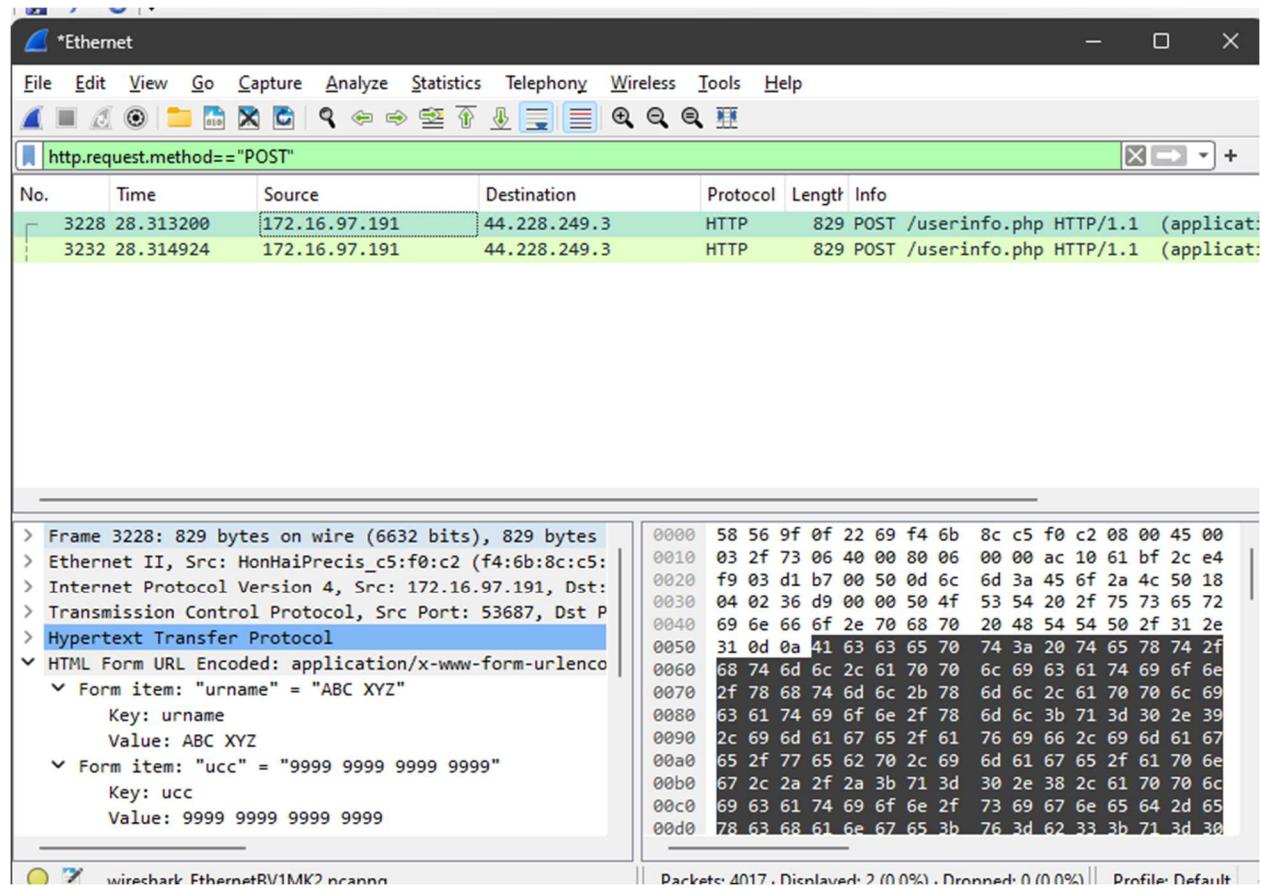
update

You have 0 items in your cart. You visualize you cart [here](#).

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Step 7: search for the post method in wire shark



Step 8: select the connection and open Hypertext transfer protocol

Wireshark - Packet 3228 - Ethernet

```

> Frame 3228: 829 bytes on wire (6632 bits), 829 bytes captured (6632 bits) on interface \Device\NPF_{BE85D95E-96A5-4281-AC8B-CAC369E36783}, id 0
> Ethernet II, Src: HonHaiPrecis_c5:f0:c2 (f4:6b:8c:c5:f0:c2), Dst: Cisco_0f:22:69 (58:56:9f:0f:22:69)
> Internet Protocol Version 4, Src: 172.16.97.191, Dst: 44.228.249.3
> Transmission Control Protocol, Src Port: 53687, Dst Port: 80, Seq: 1, Ack: 1, Len: 775
> Hypertext Transfer Protocol
  HTML Form URL Encoded: application/x-www-form-urlencoded
    Form item: "username" = "ABC XYZ"
      Key: username
      Value: ABC XYZ
    Form item: "ucc" = "9999 9999 9999 9999"
      Key: ucc
      Value: 9999 9999 9999 9999
    Form item: "uemail" = "ABCXYZ@gmail.com"
      Key: uemail
      Value: ABCXYZ@gmail.com
    Form item: "uphone" = "9999999999"
      Key: uphone
      Value: 9999999999
    Form item: "uaddress" = "Chennai India"
      Key: uaddress
      Value: Chennai India
    Form item: "update" = "update"
      Key: update
      Value: update

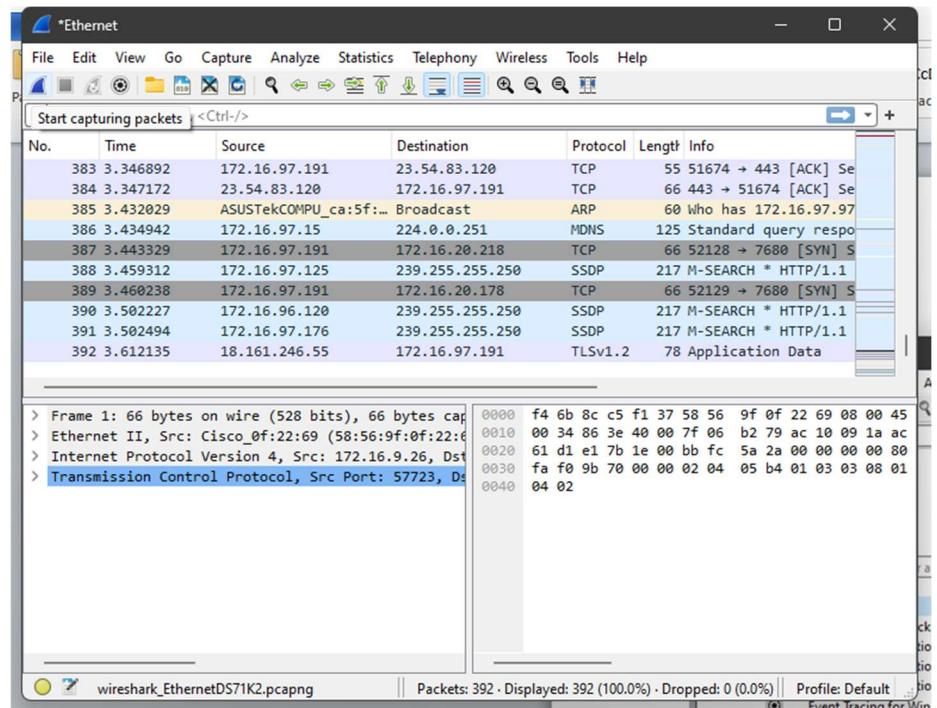
```

0000	58 56 9f 0f 22 69	f4 6b 8c c5 f0 c2 08 00 45 00	XV-·i·k ···· E-
0010	03 2f 73 06 40 00 80 06	00 00 ac 10 61 bf 2c e4	./s·@ ···· a,-
0020	f9 03 d1 b7 00 50 0d 6c	6d 3a 45 6f 2a 4e 50 18	····P·l m:Eo*LP-
0030	04 02 36 d9 00 00 50 4f	53 54 26 2f 75 73 65 72	··6··PO ST /user
0040	69 6e 66 6f 2e 70 68 70	20 48 54 54 50 2f 31 2e	info.php HTTP/1.
0050	31 0d 0a 41 63 63 65 70	74 3a 20 74 65 78 74 2f	1· Accep t: text/
0060	68 74 6d 6c 2c 61 70 70	6c 69 63 61 74 69 6f 6e	html,app lication
0070	2f 78 68 74 6d 6c 2b 78	6d 6c 2c 61 70 70 6c 69	/xhtml+x_ml,appli
0080	63 61 74 69 6f 6e 2f 78	6d 6c 3b 71 3d 30 2e 39	cation/x_ml;q=0.9
0090	2c 69 6d 61 67 65 2f 61	76 69 66 2c 69 6d 61 67	,image/a vif,imag
00a0	65 2f 77 65 62 70 2c 69	6d 61 67 65 2f 61 70 6e	e/webp,i mage/apn
00b0	67 2c 2a 2f 2a 3b 71 3d	30 2e 38 2c 61 70 70 6c	g,"/";q=0.8,appl
00c0	69 63 61 74 69 6f 6e 2f	73 69 67 6e 65 64 2d 65	ication/ signed-e
00d0	78 63 68 61 6e 67 65 3b	76 3d 62 33 3b 71 3d 30	xchange; v=b3;q=0
00e0	2e 37 0d 0a 41 63 63 65	70 74 2d 45 6e 63 6f 64	.7· Acce pt-Encod
00f0	69 6e 67 3a 20 67 7a 69	70 2c 20 64 65 66 6c 61	ing: gzi p, defla
0100	74 65 0d 0a 41 63 63 65	70 74 2d 4c 61 6e 67 75	te·Acce pt-Langu
0110	61 67 65 3a 20 65 6e 2d	55 53 2c 65 6e 3b 71 3d	age: en-US,en;q=

No: 3228 · Time: 28.313200 · Source: 172.16.97.191 · Destination: 44.228.249.3 · Protocol: HTTP · Length: 829 · Info: POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)

Show packet bytes

Result : Thus the packet tracking and analysis of LAN network has been performed using wire shark tool.



Exercise 07

Name- Piyush Verma

Regno: 23MCA1104

Question 1:

What is Ann's email address?

Answer: sneakyg33k@aol.com

The screenshot shows a Wireshark window titled "Wireshark · Follow TCP Stream (tcp.stream eq 0) · evidence02.pcap". The stream pane displays an email exchange. The client (Ann Dercov) sends a series of commands to the server (sec558@gmail.com): HELP, LOGIN, and AUTH. The server responds with 250 OK. The client then sends MAIL FROM and RCPT TO commands. The server responds with 250 OK. The client sends a DATA command, which the server responds with 354 START MAIL INPUT. The client then sends the entire email message in MIME format, including the From, To, Subject, Date, MIME-Version, Content-Type, X-Priority, X-MSMail-Priority, X-Mailer, and X-MimeOLE headers. The server responds with 250 OK.

```
250 HELP
AUTH LOGIN
334 VXNlcm5hbWU6
c251YWh5ZzMza0Bhb2wuY29t
334 UGFzc3dvcmQ6
NTU4cjAwbHo=
235 AUTHENTICATION SUCCESSFUL
MAIL FROM: <sneakyg33k@aol.com>
250 OK
RCPT TO: <sec558@gmail.com>
250 OK
DATA
354 START MAIL INPUT, END WITH "." ON A LINE BY ITSELF
Message-ID: <000901ca49ae$89d698c0$9f01a8c0@annlaptop>
From: "Ann Dercov" <sneakyg33k@aol.com>
To: <sec558@gmail.com>
Subject: lunch next week
Date: Sat, 10 Oct 2009 07:35:30 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_0006_01CA497C.3E4B6020"
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180
```

Packet 78. 10 client pkts, 10 server pkts, 18 turns. Click to select.

Entire conversation (2002 bytes) Show data as ASCII Stream 0

Find: Find Next

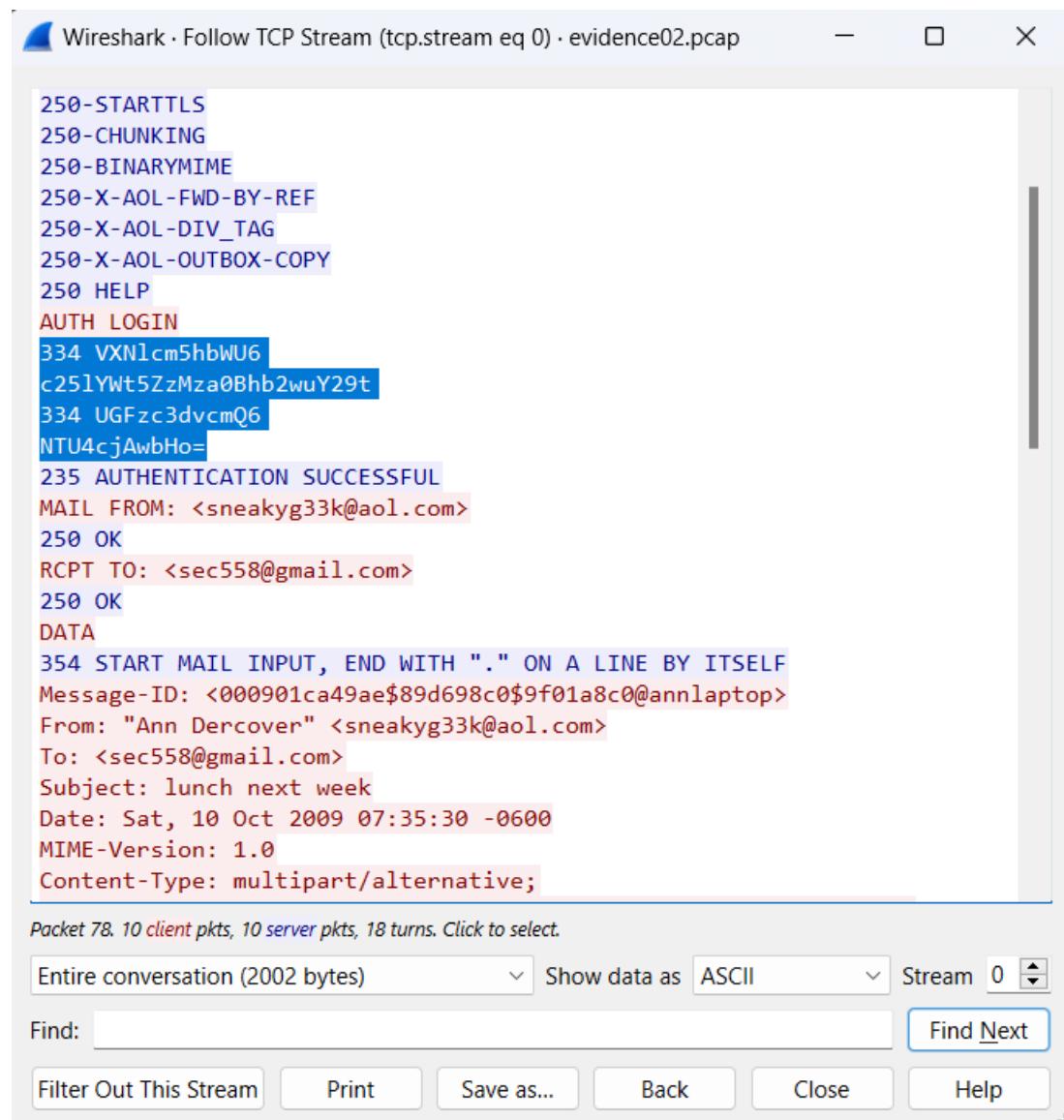
Filter Out This Stream Print Save as... Back Close Help

Question 2:

What is Ann's email password?

Copy the content from AUTH LOGIN to AUTHENTICATION SUCCESSFULLY and go to any website and search for decode url64 and paste the content

Answer: 558r00lz



The screenshot shows a Wireshark window displaying a TCP stream. The conversation starts with several server status messages (250-STARTTLS, 250-CHUNKING, etc.) followed by an AUTH LOGIN command. The client responds with a URL-encoded password (c25lYWt5ZzMza0Bhb2wuY29t). This is followed by a 235 AUTHENTICATION SUCCESSFUL response and the client sending its full email message. The message includes headers (MAIL FROM, RCPT TO) and body content (DATA) in red. The message body discusses a lunch plan for Saturday.

```
250-STARTTLS
250-CHUNKING
250-BINARYMIME
250-X-AOL-FWD-BY-REF
250-X-AOL-DIV_TAG
250-X-AOL-OUTBOX-COPY
250 HELP
AUTH LOGIN
334 VXNlcjcm5hbWU6
c25lYWt5ZzMza0Bhb2wuY29t
334 UGFzc3dvcmQ6
NTU4cjAwbHo=
235 AUTHENTICATION SUCCESSFUL
MAIL FROM: <sneakyg33k@aol.com>
250 OK
RCPT TO: <sec558@gmail.com>
250 OK
DATA
354 START MAIL INPUT, END WITH "." ON A LINE BY ITSELF
Message-ID: <000901ca49ae$89d698c0$9f01a8c0@annlaptop>
From: "Ann Dercov" <sneakyg33k@aol.com>
To: <sec558@gmail.com>
Subject: lunch next week
Date: Sat, 10 Oct 2009 07:35:30 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative;
```

Packet 78. 10 client pkts, 10 server pkts, 18 turns. Click to select.

Entire conversation (2002 bytes) Show data as Stream 0 Find: Find Next Filter Out This Stream Print Save as... Back Close Help

Decode from Base64 format

Simply enter your data then push the decode button.

```
VXNlcjIyMjIwMTIz  
c25lYWt5ZzMza0Bhb2wuY29t  
UGFzc3dvcmQ6  
NTU4cjAwbHo=
```

 For encoded binaries (like images, documents, etc.) use the file upl

Source character set.

Decode each line separately (useful for when you have multiple en

Live mode OFF Decodes in real-time as you type or paste (s

< DECODE > Decodes your data into the area below.

```
Username:sneakyg33k@aol.comPassword:558r00lz
```

Question 3:

What is Ann's secret lover's email address?

Answer: mistersecretx@aol.com

The screenshot shows a Wireshark window displaying an email conversation. The conversation starts with a MAIL FROM command from the client to the server, followed by a 250 OK response. Then, a RCPT TO command is sent, followed by another 250 OK response. The DATA command is issued, leading to the full email message. The message header includes fields such as Message-ID, From, To, Subject, Date, MIME-Version, Content-Type, X-Priority, X-MSMail-Priority, X-Mailer, and X-MimeOLE. The message body begins with a statement about being a multi-part message in MIME format, followed by a boundary separator and a Content-Type header for multipart/alternative.

```
MAIL FROM: <sneakyg33k@aol.com>
250 OK
RCPT TO: <mistersecretx@aol.com>
250 OK
DATA
354 START MAIL INPUT, END WITH "." ON A LINE BY ITSELF
Message-ID: <001101ca49ae$e93e45b0$9f01a8c0@annlaptop>
From: "Ann Dercover" <sneakyg33k@aol.com>
To: <mistersecretx@aol.com>
Subject: rendezvous
Date: Sat, 10 Oct 2009 07:38:10 -0600
MIME-Version: 1.0
Content-Type: multipart/mixed;
        boundary="-----_NextPart_000_000D_01CA497C.9DEC1E70"
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180

This is a multi-part message in MIME format.

-----_NextPart_000_000D_01CA497C.9DEC1E70
Content-Type: multipart/alternative;
        boundary="-----_NextPart_001_000E_01CA497C.9DEC1E70"
```

Packet 138. 217 [client](#) pkts, 10 [server](#) pkts, 18 turns. Click to select.

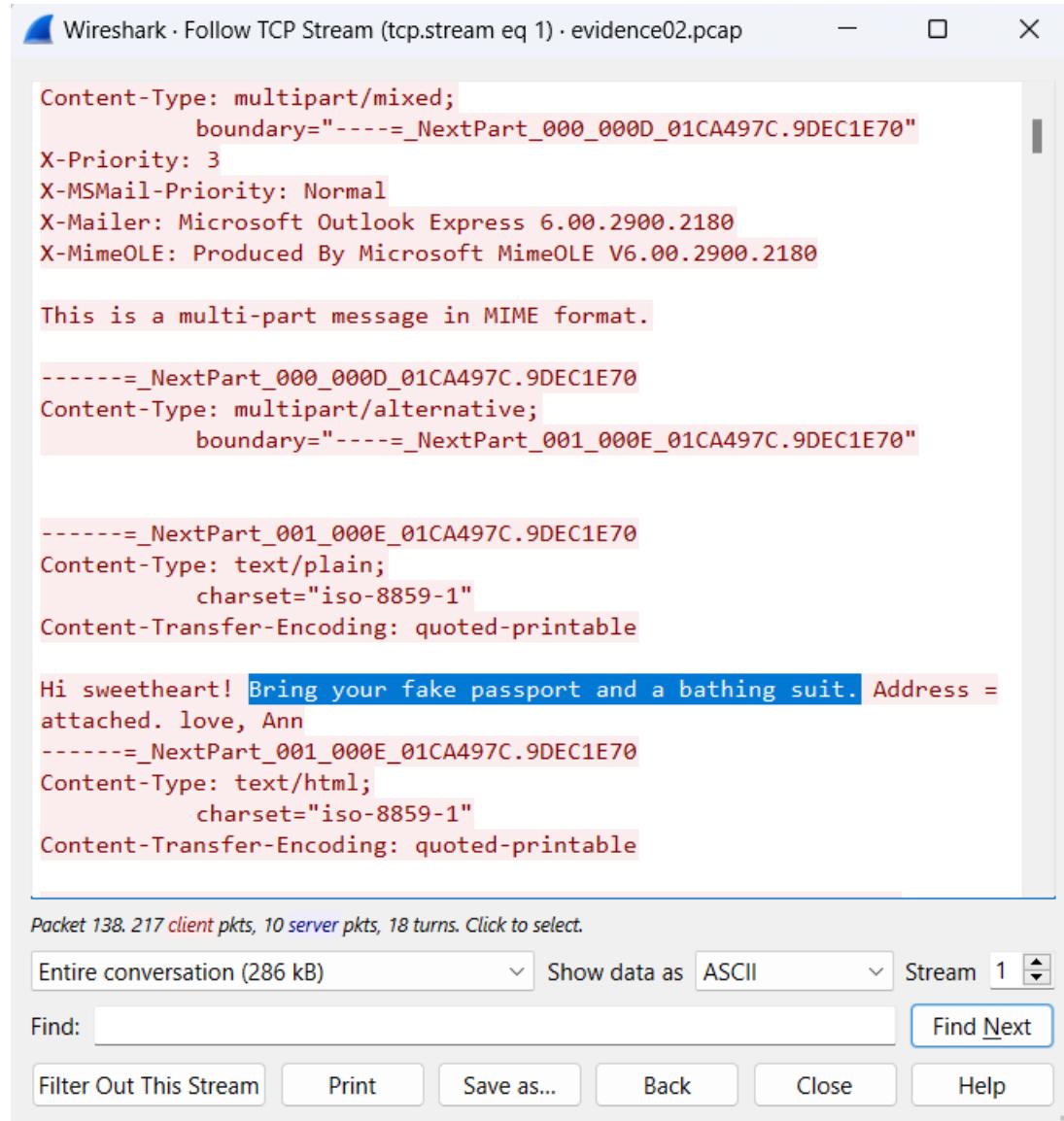
Entire conversation (286 kB) Show data as ASCII Stream 1

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

Question 4: What two items did Ann tell her secret lover to bring?

Answer: Bring your fake passport and a bathing suit



The screenshot shows the Wireshark interface with a single TCP stream selected. The message content is displayed in ASCII format:

```
Content-Type: multipart/mixed;
    boundary="-----_NextPart_000_000D_01CA497C.9DEC1E70"
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 6.00.2900.2180
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2900.2180

This is a multi-part message in MIME format.

-----_NextPart_000_000D_01CA497C.9DEC1E70
Content-Type: multipart/alternative;
    boundary="-----_NextPart_001_000E_01CA497C.9DEC1E70"

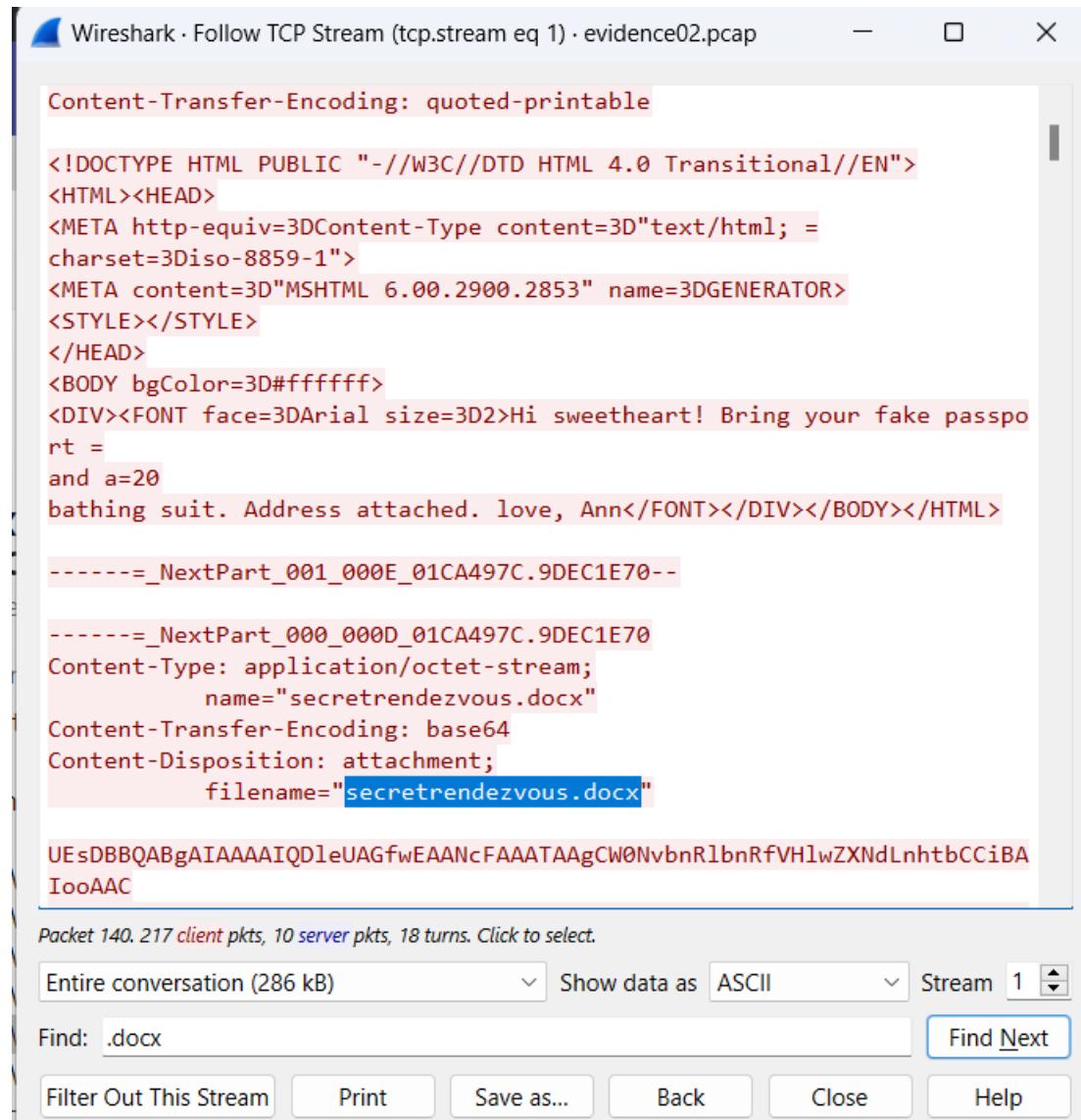
-----_NextPart_001_000E_01CA497C.9DEC1E70
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi sweetheart! Bring your fake passport and a bathing suit. Address =
attached. love, Ann
-----_NextPart_001_000E_01CA497C.9DEC1E70
Content-Type: text/html;
    charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
```

Below the message content, there is a status bar with the text "Packet 138. 217 client pkts, 10 server pkts, 18 turns. Click to select." and a toolbar with various options like "Entire conversation (286 kB)", "Show data as ASCII", "Stream 1", "Find", "Print", "Save as...", "Back", "Close", and "Help".

Question 5. What is the NAME of the attachment Ann sent to her secret lover?

Answer: `secretrendezvous.docx`



Content-Transfer-Encoding: quoted-printable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">
<META content=3D"MSHTML 6.00.2900.2853" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>Hi sweetheart! Bring your fake passpo
rt =
and a=20
bathing suit. Address attached. love, Ann</FONT></DIV></BODY></HTML>
```

-----_NextPart_001_000E_01CA497C.9DEC1E70--

-----_NextPart_000_000D_01CA497C.9DEC1E70

```
Content-Type: application/octet-stream;
           name="secretrendezvous.docx"
Content-Transfer-Encoding: base64
Content-Disposition: attachment;
           filename="secretrendezvous.docx"
```

UEsDBBQABgAIAAAAIQD1eUAGfwEAANcFAAATAAgCW0NvbR1bnRfVHlwZXNdLnhbCCiBA
IooAAC

Packet 140. 217 *client* pkts, 10 *server* pkts, 18 turns. Click to select.

Entire conversation (286 kB) Show data as Stream 1

Find: .docx Find Next

Filter Out This Stream Print Save as... Back Close Help

Question 6: What is the MD5sum of the attachment Ann sent to her secret lover?

Answer: 9e423e11db88f01bbff81172839e1923

Enable HMAC

9e423e11db88f01bbff81172839e1923

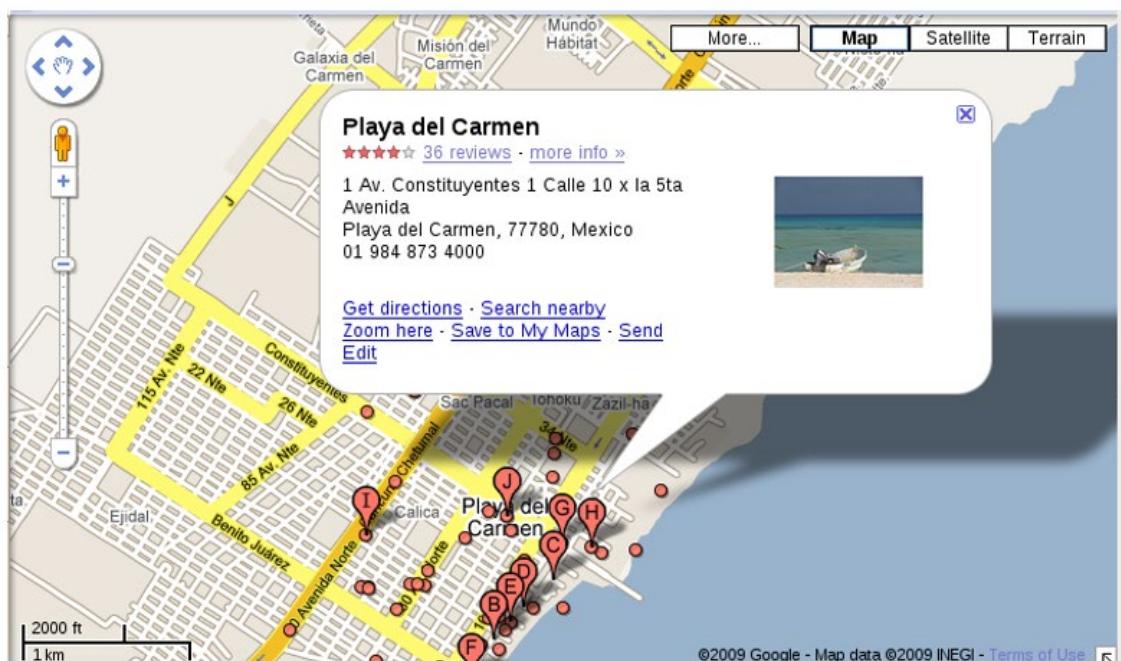
Question 7. In what CITY and COUNTRY is their rendezvous point?

Answer:

City: Playa del carmen,

Country: Mexico

Meet me at the fountain near the rendezvous point. Address below. I'm bringing all the cash.



Question 8. What is the MD5sum of the image embedded in the document?

Answer: 4994eacebee37509681541e0f7d40515

Note: certutil is not working in my system, so I used online platform

4994eacebee37509681541e0f7d40515

Exercise 8

Name-Piyush Verma

||

RegNo-23MCA1104

Instructions

Write Aim, Procedure, and output of each activity below:

1. What is the MAC address of Ann's AppleTV?
2. What User-Agent string did Ann's AppleTV use in HTTP requests?
3. What were Ann's first four search terms on the AppleTV (all incremental searches count)?
4. What was the title of the first movie Ann clicked on?
5. What was the full URL to the movie trailer (defined by "preview-url")?
6. What was the title of the second movie Ann clicked on?
7. What was the price to buy it (defined by "price-display")?
8. What was the last full-term Ann searched for?

Aim:

To analyse the packets of the pcap file and extract information from that.

Procedure:

- 1.) Download Wireshark
- 2.) Load the pcap file in Wireshark
- 3.) Extract details using the different options available in Wireshark

Question 1: What is the MAC address of Ann's AppleTV?

Answer: 00:25:00:fe:07:c4

```

> Frame 3: 78 bytes on wire (624 bits), 78 bytes captured (624 bits)
✓ Ethernet II, Src: Apple_fe:07:c4 (00:25:00:fe:07:c4), Dst: CiscoLinksys_ad:57:7b (00:23:69:ad:57:7b)
  ✓ Destination: CiscoLinksys_ad:57:7b (00:23:69:ad:57:7b)
    Address: CiscoLinksys_ad:57:7b (00:23:69:ad:57:7b)
    .... ..0. .... .... .... = LG bit: Globally unique address (factory default)
    .... ...0 .... .... .... = IG bit: Individual address (unicast)
  ✓ Source: Apple_fe:07:c4 (00:25:00:fe:07:c4)
    Address: Apple_fe:07:c4 (00:25:00:fe:07:c4)
    .... ..0. .... .... .... = LG bit: Globally unique address (factory default)
    .... ...0 .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
✓ Internet Protocol Version 4, Src: 192.168.1.10, Dst: 8.18.65.67
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  > Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 64
    Identification: 0x063a (1594)
  > 010. .... = Flags: 0x2, Don't fragment
  ...0 0000 0000 0000 = Fragment Offset: 0

0000  00 23 69 ad 57 7b 00 25  00 fe 07 c4 08 00 45 00  .#i·W{.%....·E·
0010  00 40 06 3a 40 00 40 06  29 77 c0 a8 01 0a 08 12  ·@·:@·@· )w·····
0020  41 43 c0 0b 00 50 f0 9d  43 d3 00 00 00 00 b0 02  AC···P··C······
0030  ff ff d9 59 00 00 02 04  05 b4 01 03 03 00 01 01  ···Y···········
0040  08 0a 41 35 1c 9f 00 00  00 00 04 02 00 00 00 00  ··A5···········

```

Question 2: What User-Agent string did Ann's AppleTV use in HTTP requests?

Answer: AppleTV/2.4\r\n

```

.... .0 .... .... .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
> Internet Protocol Version 4, Src: 192.168.1.10, Dst: 8.18.65.67
> Transmission Control Protocol, Src Port: 49163, Dst Port: 80, Seq: 1, Ack: 1, Len: 346
▼ Hypertext Transfer Protocol
  > GET /WebObjects/MZStore.woa/wa/viewGrouping?id=39 HTTP/1.1\r\n
    Accept: */*\r\n
    Accept-Language: en\r\n
    Accept-Encoding: gzip, deflate\r\n
  > Cookie: s_vi=[CS]v1|259C176A85010C29-6000010D80115D7F[CE]\r\n
    User-Agent: AppleTV/2.4\r\n
    If-Modified-Since: Fri, 25 Dec 2009 04:42:31 GMT\r\n
    X-Apple-Store-Front: 143441-1,3\r\n
    Connection: keep-alive\r\n
    Host: ax.itunes.apple.com\r\n
\r\n
[Full request URI: http://ax.itunes.apple.com/WebObjects/MZStore.woa/wa/viewGrouping?id=39]
[HTTP request 1/1]
[Response in frame: 25]

```

0030	ff ff 47 1b 00 00 01 01	08 0a 41 35 1c 9f 7f 93	--G..... A5....
0040	2a 1f 47 45 54 20 2f 57	65 62 4f 62 6a 65 63 74	*-GET /W ebObject
0050	73 2f 4d 5a 53 74 6f 72	65 2e 77 6f 61 2f 77 61	s/MZStor e.woa/wa
0060	2f 76 69 65 77 47 72 6f	75 70 69 6e 67 3f 69 64	/viewGro uping?id
0070	3d 33 39 20 48 54 54 50	2f 31 2e 31 0d 0a 41 63	=39 HTTP /1.1..Ac
0080	63 65 70 74 3a 20 2a 2f	2a 0d 0a 41 63 63 65 70	cept: */ *..Accep
0090	74 2d 4c 61 6e 67 75 61	67 65 3a 20 65 6e 0d 0a	t-Langu age: en..
00a0	41 63 63 65 70 74 2d 45	6e 63 6f 64 69 6e 67 3a	Accept-E ncoding:
00b0	20 67 7a 69 70 2c 20 64	65 66 6c 61 74 65 0d 0a	gzip, d eflate..
00c0	43 6f 6f 6b 69 65 3a 20	73 5f 76 69 3d 5b 43 53	Cookie: s_vi=[CS]
00d0	5d 76 31 7c 32 35 39 43	31 37 36 41 38 35 30 31]v1 259C 176A8501
00e0	30 43 32 39 2d 36 30 30	30 30 31 30 44 38 30 31	0C29-600 0010D801
00f0	31 35 44 37 46 5b 43 45	5d 0d 0a 55 73 65 72 2d	15D7F[CE]..User-
0100	41 67 65 6e 74 3a 20 41	70 70 6c 65 54 56 2f 32	Agent: A ppleTV/2
0110	2e 34 0d 0a 49 66 2d 4d	6f 64 69 66 69 65 64 2d	.4..If-M odified-
0120	53 69 6e 63 65 3a 20 46	72 69 2c 20 32 35 20 44	Since: F ri, 25 D
0130	65 63 20 32 30 30 39 20	30 34 3a 34 32 3a 33 31	ec 2009 04:42:31
0140	20 47 4d 54 0d 0a 58 2d	41 70 70 6c 65 2d 53 74	GMT..X- Apple-St
0150	6f 72 65 2d 46 72 6f 6e	74 3a 20 31 34 33 34 34	ore-Fron t: 14344
0160	31 2d 31 2c 33 0d 0a 43	6f 6e 6e 65 63 74 69 6f	1-1,3..C onnectio
0170	6e 3a 20 6b 65 65 70 2d	61 6c 69 76 65 0d 0a 48	n: keep- alive..H
0180	6f 73 74 3a 20 61 78 2e	69 74 75 6e 65 73 2e 61	ost: ax. itunes.a
0190	70 70 6c 65 2e 63 6f 6d	0d 0a 0d 0a	pple.com

Packets: 1778 · Displayed: 231 (13.0%)

Question 3: What were Ann's first four search terms on the AppleTV (all incremental searches count)?

Answer : h, ha, hac, hack

http.request.uri matches "search" && ip.dst==8.18.65.32						
No.	Time	Source	Destination	Protocol	Length	Info
43	15.788224	192.168.1.10	8.18.65.32	HTTP	385	GET /WebObjects/MZSearch.woa/wa/incrementalSearch?media=movie&q=h HTTP/1.1
180	18.593436	192.168.1.10	8.18.65.32	HTTP	386	GET /WebObjects/MZSearch.woa/wa/incrementalSearch?media=movie&q=ha HTTP/1.1
230	21.842490	192.168.1.10	8.18.65.32	HTTP	387	GET /WebObjects/MZSearch.woa/wa/incrementalSearch?media=movie&q=hac HTTP/1.1
276	25.405800	192.168.1.10	8.18.65.32	HTTP	388	GET /WebObjects/MZSearch.woa/wa/incrementalSearch?media=movie&q=hack HTTP/1.1

Question 4: What was the title of the first movie Ann clicked on?

Answer: Hackers

No.	Time	Source	Destination	Protocol	Length	Info
307	34.910097	192.168.1.10	8.18.65.67	HTTP	375	GET /WebObjects/MZStore.woa/wa/viewMovie?id=333441649&s=143441 HTTP/1.1
320	35.105346	192.168.1.10	66.235.132.121	HTTP	573	GET /b/ss/applesuperglobal/1/G.6--NS?pageName=Movie%20Page-US-Hackers-Lain%20Softley-333441649&pccr=true&h5=appleitm&natv%2Capp
1181	87.830177	192.168.1.10	8.18.65.67	HTTP	375	GET /WebObjects/MZstore.woa/wa/viewMovie?id=283963264&s=143441 HTTP/1.1
1189	87.951562	192.168.1.10	66.235.132.121	HTTP	583	GET /b/ss/applesuperglobal/1/G.6--NS?pageName=Movie%20Page-US-Sneakers-Phil%20Alden%20Robinson-283963264&pccr=true&h5=appleitm

.... .0 = IG bit: Individual address (unicast)		Type: IPv4 (0x0800)		00d0 6f 76 69 65 25 32 30 50 61 67 65 26 67 3d 68 74 ovie%20P age&g=h		tp%3A%F %2Fax.it	
> Internet Protocol Version 4, Src: 192.168.1.10, Dst: 66.235.132.121		> Transmission Control Protocol, Src Port: 49169, Dst Port: 80, Seq: 1, Ack: 1, Len: 507		00e0 74 70 25 33 41 25 32 46 25 32 46 61 78 2e 69 74 unes.app le.com%2		unes.app le.com%2	
> Hypertext Transfer Protocol		> [truncated]GET /b/ss/applesuperglobal/1/G.6--NS?pageName=Movie%20Page-US-Hackers-Lain%20Softley-333441649&pccr=true&h5=appleitm&natv%2Capp		0100 46 57 65 62 4f 62 6a 65 63 74 73 25 32 46 4d 5a FWebObj%b cts%2FMZ		Store.wm a%2Fw%2	
> Accept: */*		> Accept-Language: en\r\n		0110 53 74 6f 72 65 2e 77 6f 61 25 32 46 77 61 25 32 Fv%20Page-1eB3fd&k		Fv%20Page-1eB3fd&k	
> Accept-Encoding: gzip, deflate\r\n		> Cookie: s_v=[CS]v1 259C176A85010C29-600010D80115D7F[CE]\r\nn		0120 40 69 62 33 34 34 34 34 70 69 67 65 46 60 54 25 303334411 HTTP/1.1		303334411 HTTP/1.1	
> User-Agent: AppleTV/2.4\r\nn		> X-Apple-Store-Front: 143441-1,3\r\nn		0130 33 44 31 33 34 34 34 34 31 74 38 54 50 59 21 31 2e 301434411 HTTP/1.1		301434411 HTTP/1.1	
				0140 31 0d 0a 41 63 63 65 70 74 3a 28 2a 2f 2a 0d 0a 1-Accep t: */*.		1-Accep t: */*.	
				0150 41 63 63 65 70 74 2d 4c 61 66 67 75 61 67 65 3a Accept-L anguage: en\Acc ept-Enco		Accept-L anguage: en\Acc ept-Enco	
				0160 20 65 6e 00 0a 41 63 63 65 70 74 70 2d 45 66 63 6f ding: gz ip, defl		ding: gz ip, defl	
				0170 64 69 6e 67 3a 20 67 73 69 70 2c 20 64 65 66 6c ate.-Coo kie: s_v		ate.-Coo kie: s_v	
				0180 69 3d 5b 43 53 5d 76 31 7c 32 35 39 43 31 37 36 i=[CS]v1 259C176		i=[CS]v1 259C176	

Question 5: What was the full URL to the movie trailer (defined by “preview-url”)?

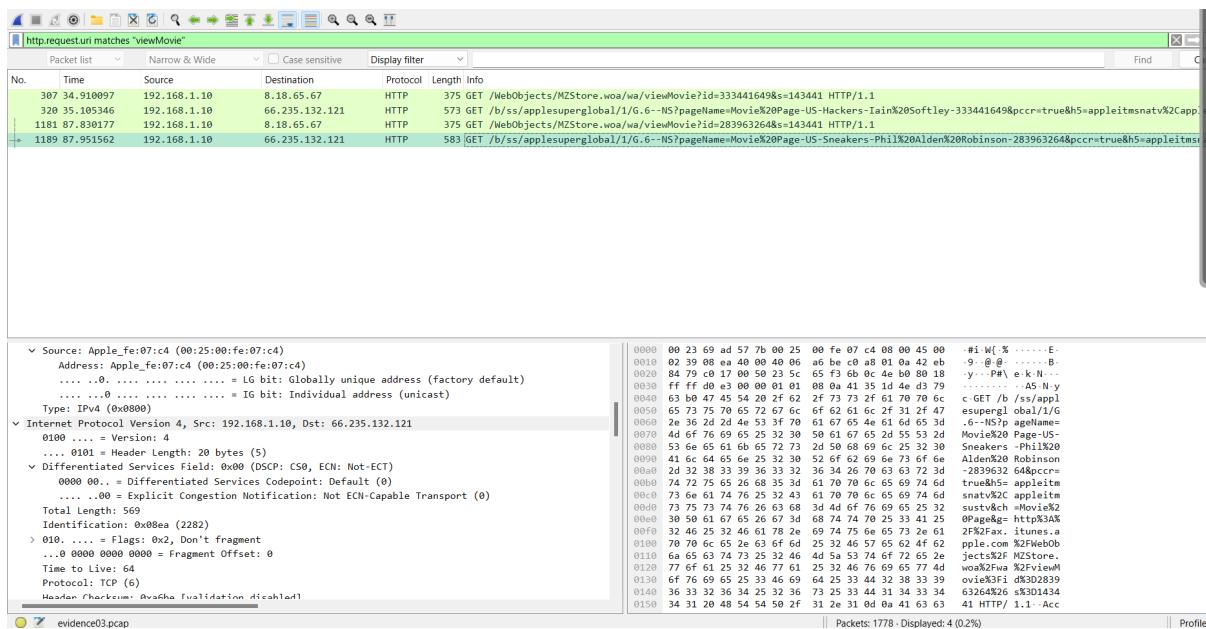
Answer:

http://a1.phobos.apple.com/us/r1000/032/Video/f0/48/dd/mzi.pizbdeal.enc.jpg?downloadKey2=1265245618_f3a714a27ea9388f7c07104353e1d763

<array>	05f0 3c 72 74 72 69 66 67 2e 5d 74 74 70 3a 2f 2f 51	<string> http://a1.phobos.apple.com/us/r1/000/032/Video/f0/48/dd/mzi.pizbdeal.enc.jpg?downloadKey2=1265245618_f3a714a27ea9388f7c07104353e1d763
<dict>	0600 31 2e 70 68 6f 62 6f 73 2e 61 70 70 6c 65 2e 63	0610 6f 6d 2f 75 73 2f 72 31 30 30 2f 30 33 2f
<key>	0620 56 69 64 65 6f 2f 62 30 2f 34 38 2f 64 64 2f 60	0630 7a 69 2e 70 69 7a 62 64 65 61 6c 2e 65 6e 63 2e
<string>	0640 6a 70 67 69 64 6f 70 65 66 67 68 69 65 70 72	0650 6c 69 32 36 37 34 35 31 38 5f 61 62 63 64 65 73
<string>	0660 31 34 61 32 37 65 61 39 33 38 38 66 37 63 30 37	0670 31 30 34 33 35 33 65 31 64 37 36 33 3c 2f 73 74
</dict>	0680 72 69 6e 67 3e 0a 20 20 20 20 20 20 20 20	0690 3c 6b 65 79 3e 62 66 78 24 77 69 64 74 68 3c 2f
</array>	0690 3c 6b 65 79 3e 62 66 78 24 77 69 64 74 68 3c 2f	<key>box -width/
	06a0 6b 65 79 3e 69 64 74 65 66 55 72 3e 31 30 30	<key>int erger>100
	06b0 6c 69 32 36 37 34 35 31 38 5f 61 62 63 64 65 73	0</key>int erger>100
	06c0 20 20 20 20 20 20 20 20 20 20 20 20 20 20	</dict>
	06d0 20 20 3c 2f 61 72 72 61 79 3e 0a 20 20 20 20 20	</arr> y>
	06e0 20 3c 6b 65 79 3e 73 65 72 2d 72 61 74 69 6e	<key>us er-ratin
	06f0 67 2d 63 6f 75 6e 75 3c 2f 6b 65 79 3e 3c 6e 69 6e	g-count> /key>in
	0700 74 65 67 65 72 3e 30 32 3c 2f 69 6e 74 65 67 65	teger>2 </integ
	0710 72 3e 0a 20 20 20 20 20 20 20 20 20 20 20 20	e>ray>
	0720 65 72 61 67 65 2d 75 73 65 72 2d 61 74 69 6e	erage-us er-ratin

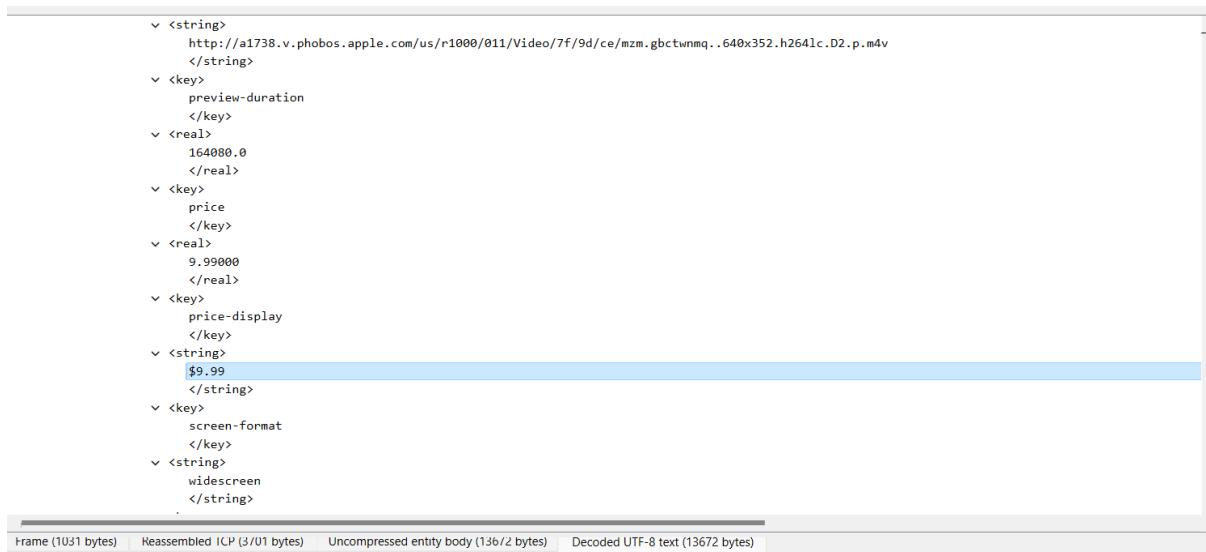
Question 6: What was the title of the second movie Ann clicked on?

Answer: Sneakers



Question 7: What was the price to buy it (defined by “price-display”)?

Answer: \$9.99



Question 8: What was the last full-term Ann searched for?

Answer : iknowyourewatchingme