/* Maven Project To Connect To Web Servers Using Selenium Dependency

 /******show the sample web page
https://www.saucedemo.com/

with its user name and password

/***********create a maven project on terminal
mvn archetype:generate -DgroupId=com.example -DartifactId=MyMavenSeleniumApp01
-DarchetypeArtifactiId=maven-archetype-quickstart -DinteractiveMode=false

/********Before we connect to web servers we need to have chrome driver installed
/*******************to download chrome driver*********************************

/*** you check check the chrome version
$google-chrome --version
Google Chrome 133.0.6943.141

CHROME_VERSION=$(google-chrome --version | awk '{print $3}' | cut -d'.' -f1-3) // extracts the
version and stores it in a variable CHROME_VERSION

sudo apt install jq   // extracts and transorms JSON data

LATEST_DRIVER=$(curl -s
"https://googlechromelabs.github.io/chrome-for-testing/latest-patch-versions-per-build.json" | jq
-r ".builds[\"$CHROME_VERSION\"].version")

//note: if it gives error saying curl is not found, do install curl using the command
sudo apt install curl

wget
https://storage.googleapis.com/chrome-for-testing-public/$LATEST_DRIVER/linux64/chromedriver-linux64.zip

/**********Extract and move it to /usr/local/bin/:

unzip chromedriver-linux64.zip
sudo mv chromedriver-linux64/chromedriver /usr/local/bin/chromedriver
sudo chmod +x /usr/local/bin/chromedriver

Check if ChromeDriver is installed correctly:

```
chromedriver --version
 133.0.6943.141 //same as google chrome version



/***********edit the pom.xml file *********************/
 //******Add the selenium dependency
 //go to maven central repository, search selenium and select selenium java and click on latest
version and copy the dependency and paste it in pom.xml



 <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.example</groupId>
 <artifactId>MyMavenSeleniumApp01</artifactId>
 <packaging>jar</packagi<ng>
 <version>1.0-SNAPSHOT</version>
 <name>MyMavenSeleniumApp01</name>
 <url>http://maven.apache.org</url>



 <dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>3.8.1</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>4.29.0</version>
</dependency>
 </dependencies>



 <!-- Build: Configuring plugins and build settings -->
```

```xml
<build>
<plugins>
<!-- Example: Maven Compiler Plugin to compile Java code -->
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.8.1</version>
<configuration>
<source>1.7</source>
<target>1.7</target>
</configuration>
</plugin>
<!-- Example: Maven Surefire Plugin to run tests -->
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>2.22.2</version>
</plugin>
<plugin>
        <groupId>org.apache.maven.plugins</groupId>

        <artifactId>maven-jar-plugin</artifactId>
        <version>3.0.1</version>
       <configuration>
          <archive>
            <manifestEntries>
               <Main-Class>com.example.App</Main-Class>
            </manifestEntries>
          </archive>
        </configuration>


     </plugin>


</plugins>
</build>
</project>
```

 /*************Before writing the App.java show them how to inspect on sauce.demo webpage to
get user name and password and login -button ids
 // right click on web page and go to inspect, we can see the html file and click the cursor on the
arrow mark available at the left end and place the cursor on username tab it shows the id used

by as user-name, same on password: password, login button:login-button do make a note of these to write it in App.java file

/****************App.java for selenium project

package com.example;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

```java
/**
 * Hello world!
 *
 */
public class App
{
    public static void main( String[] args )
    {
        WebDriver driver=new ChromeDriver();
        driver.get("https://www.saucedemo.com/");
        driver.manage().window().maximize();
        driver.findElement(By.id("user-name")).sendKeys("standard_user");
        driver.findElement(By.id("password")).sendKeys("secret_sauce");
        driver.findElement(By.id("login-button")).click();
    }
}
```

/***** build and run the maven application
mvn clean install

java -jar target/MyMavenSeleniumApp01-1.0-SNAPSHOT

if we get error in executing the above jar file do run the below command
mvn exec:java -Dexec.mainClass="com.example.App"

//********* it opens saucedemo.com and we can login using the credentials

we can run directly the java -jar target/MyMavenSeleniumApp01-1.0-SNAPSHOT if we add the below plugin in pom.xml

```xml
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-shade-plugin</artifactId>
<version>3.3.0</version>
<executions>
<execution>
<phase>package</phase>
<goals>
<goal>shade</goal>
</goals>
</execution>
</executions>
</plugin>
```