Q1. **Write a WebDriver script to navigate to a website and click on a specific link.**

public static void main(String[] args) throws InterruptedException {

System.setProperty("webdriver.chrome.driver","C:\\Users\\hp\\Documents\\Drivers\\chromedriver-win64\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

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

driver.get("https://www.minecraft.net/en-us");

WebElement specficlink = driver.findElement(By.xpath("//img[@xpath='3']"));

Thread.sleep(1000);

specficlink.click();

}

Q2. **Implement a Page Object Model for a login page using****WebDriver.**

Login:

public class Login\_page {

WebDriver driver;

By username=By.id("user-name");

By password=By.id("password");

By login\_button=By.id("login-button");

public Login\_page(WebDriver driver) {

this.driver=driver;

}

public void setUserName(String setUserName) {

driver.findElement(username).sendKeys(setUserName);

}

public void setPassword(String setPassword) {

driver.findElement(password).sendKeys(setPassword);

}

public void onClick() {

driver.findElement(login\_button).click();

}

public void loginToSwagLabs(String username,String password) {

this.setUserName(username);

this.setPassword(password);

this.onClick();

}

Home page:

public class Home\_page {

WebDriver driver;

public Home\_page(WebDriver driver) {

this.driver=driver;

}

By logo\_text=By.xpath("//div[@class="app\_logo"]");

public String getTextFromLogo() {

return driver.findElement(logo\_text).getText();

}

Test:

public class TestSwagLabs {

Login\_page login\_page;

Home\_page home\_page;

WebDriver driver;

@BeforeTest

public void setup() {

WebDriverManager.chromedriver().setup();

driver = new ChromeDriver();

driver.get("https://www.saucedemo.com/");

}

@Test

public void testHomePage() {

login\_page=new Login\_page(driver);

login\_page.loginToSwagLabs("standard\_user","secret\_sauce");

home\_page=new Home\_page(driver);

String logo=home\_page.getTextFromLogo();

System.out.println(logo);

}

Q3. **Write a WebDriver script to handle a dropdown and select an option based on specific criteria. .**

WebDriver driver = new ChromeDriver();

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

driver.get("https://the-internet.herokuapp.com/dropdown");

WebElement dropdown = driver.findElement(By.xpath("//select[@id='dropdown']"));

Select dd = new Select(dropdown);

dd.selectByIndex(1);

Thread.sleep(2000);

dd.selectByVisibleText("Option 2");

Thread.sleep(2000);

dd.selectByValue("1");

Thread.sleep(2000);

dd.deselectByVisibleText("Option 1");

Q4. **Implement a test case using WebDriver to validate the functionality of a registration form.**

private LoginPage loginPage = new LoginPage(DriverFactory.getDriver());

@Given("user is on login page")

public void user\_is\_on\_login\_page() {

DriverFactory.getDriver()

.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");

}

@When("user gets the title of the page")

public void user\_gets\_the\_title\_of\_the\_page() {

title = loginPage.getLoginPageTitle();

System.out.println("Page title is: " + title);

}

@Then("page title should be {string}")

public void page\_title\_should\_be(String expectedTitleName) {

Assert.assertTrue(title.contains(expectedTitleName));

}

@Then("forgot your password link should be displayed")

public void forgot\_your\_password\_link\_should\_be\_displayed() throws InterruptedException {

Assert.assertTrue(loginPage.isForgotPwdLinkExist());

}

@When("user enters username {string}")

public void user\_enters\_username(String username) throws InterruptedException {

loginPage.enterUserName(username);

}

@When("user enters password {string}")

public void user\_enters\_password(String password) throws InterruptedException {

loginPage.enterPassword(password);

}

@When("user clicks on Login button")

public void user\_clicks\_on\_login\_button() {

loginPage.clickOnLogin();

Q5. **Write a WebDriver script to capture a screenshot of a****webpage and save it to a specific location.**

System.setProperty("webdriver.chrome.driver", "webdriver.chrome.driver","C:\\Users\\hp\\Documents\\Drivers\\chromedriver-win64\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("https://www.nivabupa.com/");

File screenshot = ((TakesScreenshot) driver).getScreenshotAs(OutputType.FILE);

try {

FileUtils.copyFile(screenshot, new File("C:\\projectScreenshots\\Screenshot.png"));

} catch (IOException e) {

System.out.println(e.getMessage());

}

driver.close();