**Automation Code**

Automation of Test Cases for <https://www.saucedemo.com/>:

To automate the test cases, you can use a suitable automation testing framework such as Selenium WebDriver with a programming language like Java or Python. To automate the test cases mentioned in Manual Test Cases using Selenium WebDriver in Java:

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class SauceDemoAutomation {

    public static void main(String[] args) {

        @Before

        System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");

WebDriver driver = new ChromeDriver();

**// Test Case 1: Verify successful login with valid credentials**

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

driver.manage().timeouts.implicitlyWait(5000,TimeUnit.MILLISECOND);

@Test

        driver.findElement(By.id("user-name")).sendKeys("standard\_user");

driver.findElement(By.id("password")).sendKeys("secret\_sauce");

        driver.findElement(By.id("login-button")).click();

//Assertion for comparison:

String actualmessage=driver.findElement(By.id(“Swag Labs”)).getText();

System.out.println(“Actual Message”+actualmessage);

String expectedmessage=”Swag Labs”

Assert.asserEquals(actualmessage, expectedmessage);

**// Test Case 2: Verify unsuccessful login with invalid credentials**

@Test

        driver.findElement(By.id("user-name")).sendKeys("standard\_user");

        driver.findElement(By.id("password")).sendKeys("secret\_sauce");

        driver.findElement(By.className("login-button")).click();

Thread.sleep(5000);

Alert alert = driver.switchTo().alert(); // switch to alert

Thread.sleep(5000);

alert.accept();

**// Test Case 3: Verify adding a product to the cart**

        @Test

        driver.findElement(By.id("user-name")).sendKeys("standard\_user");

        driver.findElement(By.id("password")).sendKeys("secret\_sauce");

        driver.findElement(By.className("login-button")).click();

        driver.findElement(By.xpath //\*[@id="add-to-cart-sauce-labs-backpack"]")).click();

drive.findElement(By.id(“shopping\_cart\_container”)).Click():

**// Test Case 4: Verify removing a product from the cart**

@Test

        driver.findElement(By.id("user-name")).sendKeys("standard\_user");

        driver.findElement(By.id("password")).sendKeys("secret\_sauce");

        driver.findElement(By.className("login-button")).click();

        driver.findElement(By.xpath("//\*[@id="add-to-cart-sauce-labs-backpack"]")).click();

        drive.findElement(By.id(“shopping\_cart\_container”)).Click();

driver.findElement(By.xpath("//\*[@id="remove-sauce-labs-backpack"]")).click();

**// Test Case 5: Verify successful checkout**

@Test

        driver.findElement(By.id("user-name")).sendKeys("standard\_user");

        driver.findElement(By.id("password")).sendKeys("secret\_sauce");

        driver.findElement(By.className("login-button")).click();

        driver.findElement(By.xpath //\*[@id="add-to-cart-sauce-labs-backpack"]")).click();

drive.findElement(By.id(“shopping\_cart\_container”)).Click();

        driver.findElement(By.xpath(“//\*[@id="checkout"]”)).Click();

driver.findElement(By.id(“first-name”)).sendkeys(“Shivani”);

driver.findElement(By.id(“last-name”)).sendkeys(“Rana”);

driver.findElement(By.id(“postal-code”)).sendkeys(“123456”);

driver.findElement(By.id(“continue”)).Click();

**// Test Case 6: Verify unsuccessful checkout due to missing information**

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

                driver.findElement(By.id("user-name")).sendKeys("standard\_user");

        driver.findElement(By.id("password")).sendKeys("secret\_sauce");

        driver.findElement(By.className("login-button")).click();

        driver.findElement(By.xpath //\*[@id="add-to-cart-sauce-labs-backpack"]")).click();

drive.findElement(By.id(“shopping\_cart\_container”)).Click();

        driver.findElement(By.xpath(“//\*[@id="checkout"]”)).Click();

driver.findElement(By.id(“first-name”)).sendkeys(“Shivani”);

driver.findElement(By.id(“last-name”)).sendkeys(“Rana”);

// Leave the other required fields blank

driver.findElement(By.id(“continue”)).Click();

Thread.sleep(5000);

Alert alert = driver.switchTo().alert(); // switch to alert

driver.switchTo().alert().dismiss();

@After

        // Close the browser

        driver.quit();

    }

}