12.Practical Exercise: Build a Test Suite with End-to-End Automation in Selenium (Java)

- 1. Create Eclipse Java Project a. In Eclipse: Click File \rightarrow New -> Other \rightarrow Select **Java Project** b. Set Project name saucedemo-automation . and select Use an execution environment as java1.8, Click finish c. Right-click your project \rightarrow Build Path \rightarrow Configure Build Path d. Go to the Libraries tab → Click Add External JARs e. Now Add selenium-server f. Click Apply and Save 2. Right Click on src on the project, \rightarrow New \rightarrow Class a. Set class name AddToCartTestclick finish b. Add Program import org.openga.selenium.By; public class AddToCartTest extends LoginTest { public void addItemToCart() throws InterruptedException { login(); Thread.sleep(1000); driver.findElement(By.id("add-to-cart-sauce-labs-backpack")).click(); System.out.println(" Item added to cart."); } } 3. Right Click on src on the project, \rightarrow New \rightarrow Class a. Set class name BaseTest finish b. Add Program import org.openga.selenium.WebDriver; import org.openqa.selenium.chrome.ChromeDriver; public class BaseTest { protected WebDriver driver; public void setup() { driver = new ChromeDriver(); driver.manage().window().maximize(); public void teardown() { if (driver != null) { driver.quit();
- 4. Right Click on src on the project, \rightarrow New \rightarrow Class

}

a. Set class name CheckoutTest finish

b. Add Program

```
import org.openqa.selenium.By;
    public class CheckoutTest extends LoginTest {
      public void completeCheckout() throws InterruptedException {
        driver.findElement(By.id("add-to-cart-sauce-labs-backpack")).click();
        driver.findElement(By.className("shopping_cart_link")).click();
        driver.findElement(By.id("checkout")).click();
        driver.findElement(By.id("first-name")).sendKeys("John");
        driver.findElement(By.id("last-name")).sendKeys("Doe");
        driver.findElement(By.id("postal-code")).sendKeys("12345");
        driver.findElement(By.id("continue")).click();
        driver.findElement(By.id("finish")).click();
        System. out. println(" Checkout completed successfully.");
     }
   }
5. Right Click on src on the project, \rightarrow New \rightarrow Class
        a. Set class name InventoryObjectCount finish
        b. Add Program
    import org.openga.selenium.By;
    import org.openga.selenium.WebElement;
    import java.util.List;
    public class InventoryObjectCount extends LoginTest {
      public void countObjects() throws InterruptedException {
        Thread.sleep(2000);
        List<WebElement> allElements = driver.findElements(By.xpath("//*"));
        System.out.println(" Total elements on inventory page: " + allElements.size());
     }
   }
6. Right Click on src on the project, \rightarrow New \rightarrow Class
        a. Set class name LoginTest finish
        b. Add Program
    import org.openga.selenium.By;
    public class LoginTest extends BaseTest {
      public void login() {
        setup();
        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.id("login-button")).click();
     }
   }
```

```
7. Right Click on src on the project, \rightarrow New \rightarrow Class
        a. Set class name LogoutTest finish
       b. Add Program
    import org.openga.selenium.By;
    public class LogoutTest extends LoginTest {
      public void logout() throws InterruptedException {
        login();
        Thread.sleep(1000);
        driver.findElement(By.id("react-burger-menu-btn")).click();
        Thread.sleep(1000);
        driver.findElement(By.id("logout sidebar link")).click();
        System.out.println(" Logged out.");
     }
   }
8. Right Click on src on the project, \rightarrow New \rightarrow Class
        a. Set class name Main finish
       b. Add Program
    public class Main {
      public static void main(String[] args) throws InterruptedException {
        InventoryObjectCount objCount = new InventoryObjectCount();
        objCount.countObjects();
        objCount.teardown();
        AddToCartTest add = new AddToCartTest();
        add.addItemToCart();
        add.teardown();
        CheckoutTest checkout = new CheckoutTest();
        checkout.completeCheckout();
        checkout.teardown();
        LogoutTest logout = new LogoutTest();
        logout.logout();
        logout.teardown();
     }
   }
9. Run class Main
```

Output:- Opened wikipedia and closed

Output (Console)

Total elements on inventory page: 140

Item added to cart.

Checkout completed successfully.

Logged out.