Please complete the following automation exercises using your automation test tool of choice.

Please structure your solution as you would do in a work environment / setting.

## **UI** Automation

On ebay.com website, please automate the following test scenario

Scenario 1 – Verify item can be added to Cart

- 1. Open browser
- 2. Navigate to ebay.com
- 3. Search for 'book'
- 4. Click on the first book in the list
- 5. In the item listing page, click on 'Add to cart'
- 6. verify the cart has been updated and displays the number of items in the cart as shown below in yellow.



## Ans-

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;

public class EbayAddToCart { public static void main(String[] args)

{
System.setProperty("webdriver.chrome.driver", "/path/to/chromedriver");
WebDriver driver = new ChromeDriver();
//Step 1-Open Browser & Navigate to ebay.com
driver.get("https://www.ebay.com");
```

```
driver.manage().window().maximize();
// Search for Book
WebDriverWait wait = new WebDriverWait(driver, 10);
WebElement searchBox = wait.until(ExpectedConditions.presenceOfElementLocated(By.id("gh-ac")));
searchBox.sendKeys("book");
WebElement searchButton = driver.findElement(By.id("gh-btn"));
searchButton.click();
//Click on the first book in the list
WebElement firstBook =
wait.until(ExpectedConditions.presenceOfElementLocated(By.xpath("(//li[@class='s-item'])[1]//a")));
firstBook.click();
// In the item listing page, click on 'Add to cart'
WebElement addToCartButton =
wait.until(ExpectedConditions.elementToBeClickable(By.id("isCartBtn_btn")));
addToCartButton.click();
//Verify the cart has been updated and displays the number of items in the cart as shown below in
yellow.
String cartCount = cartCountElement.getText();
if ("1".equals(cartCount))
{ System.out.println("Item successfully added to cart. Cart count: " + cartCount); }
else { System.out.println("Error: Expected cart count to be 1, but found " + cartCount); }
driver.quit(); } }
```

## **API Automation**

On the following endpoint - api.coindesk.com/v1/bpi/currentprice.json, automate the following

- 1. Send the GET request
- 2. Verify the response contains
  - a. There are 3 BPIs
    - i. USD
    - ii. GBP
    - iii. EUR
  - b. The GBP 'description' equals 'British Pound Sterling'.

## Ans-

import org.apache.http.HttpResponse;

import org.apache.http.client.HttpClient;

import org.apache.http.client.methods.HttpGet;

import org.apache.http.impl.client.HttpClientBuilder;

import org.apache.http.util.EntityUtils;

import org.json.JSONObject;

import org.junit.jupiter.api.Test;

import static org.junit.jupiter.api.Assertions.\*;

```
public class CoinDeskAPITest {
@Test public void testCoinDeskAPI() throws Exception {
// Send the GET request
HttpClient client = HttpClientBuilder.create().build();
HttpGet request = new HttpGet("https://api.coindesk.com/v1/bpi/currentprice.json");
HttpResponse response = client.execute(request);
// Get the response body as a string
String responseBody = EntityUtils.toString(response.getEntity());
//Verify the response contains
JSONObject jsonResponse = new JSONObject(responseBody);
JSONObject bpi = jsonResponse.getJSONObject("bpi");
assertTrue(bpi.has("USD"), "USD BPI is missing");
assertTrue(bpi.has("GBP"), "GBP BPI is missing");
assertTrue(bpi.has("EUR"), "EUR BPI is missing");
assertEquals(3, bpi.length(), "Expected 3 BPIs, but found " + bpi.length());
// The GBP 'description' equals 'British Pound Sterling'.
JSONObject gbp = bpi.getJSONObject("GBP");
String gbpDescription = gbp.getString("description");
assertEquals("British Pound Sterling", gbpDescription, "GBP description is incorrect");
System.out.println("API test passed!");
}}
```