

4. Launch a below browser in Chrome and verify below conditions using Selenium (Use XPaths to Identify Web Elements) with Java <https://www.automationanywhere.com/>

Verify below list is present on home page and click on each and every link and verify that it is navigating to the proper page

a. Products

b. Solutions

c. Resources

d. Beyond RPA

e. Company

There are two classes,

Basic_utilities: Contains basic browser functional methods.

Question4: Contains main method and other testing methods. It inherits Basic_utilities.java.

Entire code:

Basic_utilities.java

```
package Questions3and4;

import java.util.concurrent.TimeUnit;

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

public class Basic_utilities {

    public static WebDriver driver;

    public static void open_driver(String browserName ){
```

```
        if(browserName.equals("chrome")) {
            System.setProperty("webdriver.chrome.driver","../Drivers//chromedriver.exe");
            driver = new ChromeDriver();
        }
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);
    }
```

```
public static void close_browser() {
    if(driver!=null)
        driver.quit();
}
```

```
public static void navigate_to_URL(String url) {
    driver.get(url);
}
```

```
public static void navigate_back() {
    driver.navigate().back();
}
```

```
public static boolean is_displayed(By element) {
    try {
        return driver.findElement(element).isDisplayed();
    }
    catch(Exception e) {
        return false;
    }
}
```

```
public static boolean is_enabled(By element) {
    try {
        return driver.findElement(element).isEnabled();
    }
    catch(Exception e) {
        return false;
    }
}
```

```
}

public static void scroll_browser(int horizontal, int vertical) {
    try {
        ((JavascriptExecutor) driver).executeScript("window.scrollTo("+horizontal+","+vertical+")", "");
        Thread.sleep(3000);

    } catch (Exception e) {
        e.printStackTrace();
    }
}

public static void scroll_to_element(By element) {
    try {
        ((JavascriptExecutor) driver).executeScript("arguments[0].scrollIntoView(true);", driver.findElement(element));

    } catch (Exception e) {
        e.printStackTrace();
    }
}

public static void click(By element) {
    try {
        driver.findElement(element).click();
    } catch (ElementNotInteractableException e) {

        scroll_to_element(element);
        driver.findElement(element).click();
    }
}

public static String get_current_url() {
    return driver.getCurrentUrl();
}

}
```

Question04.java

```
package Questions3and4;

import org.openqa.selenium.By;

public class Question04 extends Basic_utilities {

    // page elements
    public static By button_accept_all_cookie = By.xpath("//*[@id='onetrust-accept-btn-handler']");
    public static By link_headerOption;

    public static void main(String[] args) {

        open_driver("chrome");
        navigate_to_URL("https://www.automationanywhere.com/");
        click(button_accept_all_cookie);

        String[][] headerLinks = {{ "Products", "https://www.automationanywhere.com/products"},
                                   { "Solutions", "https://www.automationanywhere.com/solutions"},
                                   { "Resources", "https://www.automationanywhere.com/resources"},
                                   { "Beyond RPA", "https://www.automationanywhere.com/rpa/robotic-process-automation"},
                                   { "Company", "https://www.automationanywhere.com/company/about-us"} };

        //Page URL Validation
        verify_home_header_links(headerLinks);

        close_browser();

    }

    public static void verify_home_header_links(String [][]headerLinks ) {

        for(int i=0;i<headerLinks.length;i++) {

            link_headerOption =By.xpath("//a[text()='"+headerLinks[i][0]+'"]");

            if(is_displayed(link_headerOption)) {

                System.out.println("Test Pass: '"+headerLinks[i][0]+' link is present");

                click(link_headerOption);

            }

        }

    }

}
```

