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

```
package com.Assignment;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class specificlink_Assignment1 {

	public static void main(String[] args) {
		WebDriver driver= new ChromeDriver();
		driver.manage().window().maximize();

		//to get a URL from a website

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

		// to select a specific link from the google page

		WebElement gmail=driver.findElement(By.partialLinkText("Gmail"));
		// To click on the specific link text
		gmail.click();

		driver.close();

	}
```

2. Implement a Page Object Model for a login page using WebDriver.

1.login page

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class LoginPage {

   private WebDriver driver;

   @FindBy(name = "Username");
   private WebElement usernameInput;

   @FindBy(name = "Password");
   private WebElement passwordInput;

   @FindBy(xpath = " //*[@id="app"]/div[1]/div/div[1]/div/div[2]/div[2]/form/div[3]/button");
   private WebElement loginButton;

   public LoginPage(WebDriver driver) {
      this.driver = driver;
      PageFactory.initElements(driver, this);
   }

   public void setUsername(String username) {
      usernameInput.sendKeys(“Admin”);
   }

   public void setPassword(String password) {
      passwordInput.sendKeys(“Admin123”);
```

```
    }

    public void clickLogin() {
        loginButton.click();
    }
}
```

2.Dashboard Page

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.support.PageFactory;

public class DashboardPage {

    private WebDriver driver;

    public DashboardPage(WebDriver driver) {
        this.driver = driver;
        PageFactory.initElements(driver, this);
    }
}
```

3.Validation

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;

public class LoginTest {

    private WebDriver driver;
```

```
@BeforeMethod
public void setUp() {
    // Set up WebDriver
    System.setProperty("webdriver.Chrome.driver", " path_to_Chrome_driver");
    driver = new ChromeDriver();
    driver.manage().window().maximize();
}

@Test
public void testLogin() {
    // Open the ORHM login page
    driver.get("" https://opensource-demo.orangehrmlive.com/web/index.php/auth/login ");

    // Initialize LoginPage
    LoginPage loginPage = new LoginPage(driver);

    // Enter credentials
    loginPage.setUsername("Admin");
    loginPage.setPassword("Admin123");

    // Click login button
    loginPage.clickLogin();

    // Assuming successful login redirects to Dashboard
    Assert.assertEquals(driver.getCurrentUrl(), "expected_dashboard_url");
}

@AfterMethod
public void tearDown() {
    // Close the WebDriver instance
```

```
        if (driver != null) {
            driver.quit();
        }
    }
}
```

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

```
package com.Assignment;

import java.time.Duration;
import java.util.List;

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.Select;

public class DrpDown_Assignement3 {

        public static void main(String[] args) {
                WebDriver driver = new ChromeDriver();
                driver.manage().window().maximize();
                driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
                //To get a url and xpath of dropdown menus by using the select class.
                driver.get("https://www.ironspider.ca/forms/dropdowns.htm");
                WebElement
Drplist=driver.findElement(By.xpath("//*[@id=\"Content\"]/div[1]/center[1]/div/form/select"));
                Select select= new Select(Drplist);
                System.out.println("Selected select:"+select.getFirstSelectedOption().getText());
```

```
                //To find the no of elements in the dropdown menu
                List<WebElement>Cofffee=select.getOptions();
                System.out.println("Total no.of coffee: "+Cofffee.size());
                //To print the no of menus in the drop down
                int i=0;
                for (WebElement c: Cofffee )
                {

                        System.out.println(i + ". "+ c.getText());
                }
        //It is a method in a select class
                select.selectByVisibleText("Black");
                System.out.println("Selected select by visible
text:"+select.getFirstSelectedOption().getText());
                //It is a method in a select class
                select.selectByIndex(2);
                System.out.println("Selected select by
index:"+select.getFirstSelectedOption().getText());
                //It is a method in a select class
                select.selectByValue("cream");
                System.out.println("Selected select by
value:"+select.getFirstSelectedOption().getText());

                driver.close();
        }

}
```

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

```
package com.Assignment;

import java.awt.AWTException;
import java.awt.Robot;
import java.time.Duration;

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.chrome.ChromeOptions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.Select;
import org.openqa.selenium.support.ui.Wait;
import org.openqa.selenium.support.ui.WebDriverWait;

public class A04Registrationform {

	public static void main(String[] args) throws InterruptedException, AWTException {
		WebDriver driver = new ChromeDriver();

		ChromeOptions op = new ChromeOptions();
		WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(10));
		op.addArguments("--disable-notifications");
```

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

		driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(2));

		driver.get("https://demoqa.com/automation-practice-form");

		WebElement fname = driver.findElement(By.id("firstName"));

		fname.sendKeys("Aparna");

		WebElement lname = driver.findElement(By.id("lastName"));

		lname.sendKeys("Kadam");

		WebElement email = driver.findElement(By.id("userEmail"));

		email.sendKeys("aparna.jdhv@gmail.com");

		WebElement mob = driver.findElement(By.id("userNumber"));

		mob.sendKeys("7709432979");

		WebElement dob = driver.findElement(By.id("dateOfBirthInput"));

		dob.click();

	dob.sendKeys("22 Nov 1989");

		Select month = new Select(driver.findElement(

	By.xpath("//*[@id=\"dateOfBirth\"]/div[2]/div[2]/div/div/div[2]/div[1]/div[2]/div[1]/select"))
);
```

```
                month.selectByValue("10");

                Select yr = new Select(driver.findElement(
        By.xpath("//*[@id=\"dateOfBirth\"]/div[2]/div[2]/div/div/div[2]/div[1]/div[2]/div[2]/select"))
);

                yr.selectByValue("1989");

                WebElement dobClick = driver
        .findElement(By.xpath("//*[@id=\"dateOfBirth\"]/div[2]/div[2]/div/div/div[2]/div[2]/div[4]/d
iv[4]"));

                dobClick.click();

                WebElement sub = driver.findElement(By.id("subjectsInput"));

                sub.sendKeys("Test");

                WebElement hobbies =
driver.findElement(By.xpath("//*[@id=\"hobbiesWrapper\"]/div[2]/div[1]/label"));

                hobbies.click();

                WebElement hobbies2 =
driver.findElement(By.xpath("//*[@id=\"hobbiesWrapper\"]/div[2]/div[3]/label"));

                hobbies2.click();

                WebElement fileInput = driver.findElement(By.id("uploadPicture"));
```

```
                fileInput.click();

  fileInput.sendKeys("C:\\Users\\INDIA\\OneDrive\\Pictures\\Saved Pictures\\1.jpeg");

        Robot robot = new Robot();

robot.keyPress(1);

                WebElement state = driver.findElement(By.xpath("//*[@id=\"state\"]/div"));

                state.click();

        }

}
```

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

```
package com.Assignment;

import java.io.File;
import java.io.IOException;
import java.time.Duration;

import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
```

```
import org.openqa.selenium.io.FileHandler;

public class Screenshot_Assignment5 {

	public static void main(String[] args) throws IOException {
		WebDriver driver = new ChromeDriver();
		driver.manage().window().maximize();
		driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

		driver.get("https://staragile.melimu.com/mod/assign/view.php?id=9352");

		File screenShot = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);
		//FileUtils.copyFile(screenShot, new File("D:\\StarAgileScreenShot.jpeg");)
		FileHandler.copy(screenShot, new File("D:\\StarAgileScreenShot.jpeg"));

		System.out.println("Screenshot is taken");
		driver.close();
	}

}
```