```java
package stepdefinitionfile;

import io.cucumber.java.en.And;
import io.cucumber.java.en.Given;
import io.cucumber.java.en.Then;
import io.cucumber.java.en.When;
import org.openqa.selenium.By;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;

import java.util.Set;

public class Assignment {
    WebDriver driver;

@Given("User navigate to facebook registration page")
   public void userNavigateToFacebookRegistrationPage() {
       WebDriver driver= new ChromeDriver();
  driver.get("https://www.facebook.com/");

   }

   @When("User give all details")
   public void userGiveAllDetails() {
      driver.findElement(By.xpath("//input[@name='firstname']")).sendKeys("DEVI");
      driver.findElement(By.xpath("//input[@name='lastname']")).sendKeys("RADHA");
      driver.findElement(By.xpath("//input[@name='reg_email__']")).sendKeys("8883923229");
      driver.findElement(By.xpath("//input[@name='reg_passwd__']")).sendKeys("888abcd");

      WebElement date=driver.findElement(By.id("day"));
      Select dateSelect=new Select(date);
     // date.selectByIndex("12");
    //  date.selectByVisibleText(13);
      dateSelect.selectByValue("13");

      WebElement month=driver.findElement(By.id("month"));
      Select monthSelect=new Select(month);
      monthSelect.selectByValue("4");
```

```java
        WebElement year=driver.findElement(By.id("year"));
        Select yearSelect=new Select(year);
        yearSelect.selectByValue("2023");

        driver.findElement(By.xpath("//label[@class='_58mt']")).click();
    }

    @And("user click signup button")
    public void userClickSignupButton() {
        driver.findElement(By.xpath("//button[@name='websubmit']]")).click();

    }
}
```

ASSIGNMENT 2
AUTOMATE FACEBOOK LOGIN PAGE USING RELATIVE XPATH

```java
@Given("User navigates to facebook Application")
public void userNavigatesToFacebookApplication() {

    WebDriver driver = new ChromeDriver();
    driver.get("https://www.facebook.com/");
}

@When("User Enters the username {string}  and password {string}")
public void userEntersTheUsernameAndPassword(String username, String password)
{
    driver.findElement(By.xpath("//input[@id='email']")).sendKeys(username);
    driver.findElement(By.xpath("//input[@id='pass']")).sendKeys(password);


}

@And("User click login")
public void userClickLogin() {
    driver.findElement(By.xpath("//button[@name='login']")).click();

}

@Then("User validate the error message")
public void userValidateTheErrorMessage() {
        System.out.println("invalid");

}
```

ASSIGNMENT 3
FACEBOOK LOGIN PAGE USING XPATH AXIS

```java
@Given("User navigates to facebook Application")
   public void userNavigatesToFacebookApplication() {

       WebDriver driver = new ChromeDriver();
       driver.get("https://www.facebook.com/");
   }

   @When("User Enters the username {string}  and password {string}")
   public void userEntersTheUsernameAndPassword(String username, String
password) {

driver.findElement(By.xpath("//div[@class='_6lux']/child::input]")).sendKeys(us
ername);

driver.findElement(By.xpath("//div[@id='passContainer']/child::input]")).sendKe
ys(password);


   }

   @And("User click login")
   public void userClickLogin() {

driver.findElement(By.xpath("//div[@class='_6ltg']/child::button]")).click();

   }

   @Then("User validate the error message")
   public void userValidateTheErrorMessage() {
           System.out.println("invalid");
   }

}
```

ASSIGNMENT 4
JQUERY ALERT MESSAGE AUTOMATION

```java
@Given("user navigate to jquery url")
   public void userNavigateToJqueryUrl() {
        driver=new ChromeDriver();
       driver.get("https://www.jquery-az.com/javascript/demo.php?ex=151.1_1");

   }

   @Then("perform alert action")
   public void performAlertAction() {
```

```java
driver.findElement(By.xpath("//button[@onclick='confirmalert()']")).click();

        String alertMessage = driver.switchTo().alert().getText();
        System.out.println("alertMessage ");

      String accountDelete= driver.switchTo().alert().getText();
        System.out.println("accountDelete");
```

ASSIGNMENT 5
Automate webpage using frames and alerts

```java
public class ModuleFive {
    WebDriver driver;
    @Given("User navigate to school url")
    public void userNavigateToSchoolUrl() {
        driver= new ChromeDriver();

driver.get("https://www.w3schools.com/js/tryit.asp?filename=tryjs_prompt");

    }

    @When("switch into the frame")
    public void switchIntoTheFrame() {
        WebElement frameElement= driver.findElement(By.id("iframeResult"));
        driver.switchTo().frame(frameElement);

driver.findElement(By.xpath("//button[@onclick='myFunction()']")).click();
    }

    @And("click alert option")
    public void clickAlertOption() {
      String console=  driver.switchTo().alert().getText();
      System.out.println("test passed");
    }
}

    }
}
```