**Program 3**

**Create Gradle Project**

**Creating a Gradle Project in IntelliJ IDEA**

* **Step 1: Open IntelliJ IDEA and Create a New Project**
* Click on **"New Project"**.
* Select **"Gradle"** (under Java).
* Choose **Groovy** for the build script.
* Set the **Group ID** (e.g., com.example ).
* Click **Finish**.

1. **Build and Run a Simple Java Application**

**Copy the Plugin code in build.gradle file**

**Testing Website using selenium and TestNG dependencies in build.gradle**

plugins {

id 'application'

}

repositories {

mavenCentral()

}

dependencies {

testImplementation 'org.junit.jupiter:junit-jupiter:5.8.1'

testImplementation 'org.seleniumhq.selenium:selenium-java:4.28.1' // use the latest stable version

testImplementation 'org.testng:testng:7.4.0' // use the latest stable version

}

test {

useTestNG()

}

application {

mainClass = 'com.example.Main'

}

1. **Create docs directory in project and copy paste the index.html, Style.css and Logo.png in docs directory. Then open in explorer and go the folder.**

**Then right click git bash here**

**Give following command**

1. **git init**
2. **git status**
3. **git add .**
4. **git commit -m “some meaning full message”**
5. **git remote add origin repository name**
6. **git push -u add origin**

**To publish the file**

**1.Goto settings 🡪 pages🡪branch 🡪 select master and docs then save.**

**2.After one minute refresh(files will be published).**

1. **To test the Webpage published (automation testing)**

**create New Package org.test**

**Src-test-org.test**

**Create new java WebpageTest file under org.test**

package org.test;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.Assert;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

import static org.testng.Assert.assertTrue;

public class WebpageTest {

private static WebDriver driver;

@BeforeTest

public void openBrowser() throws InterruptedException {

driver = new ChromeDriver();

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

Thread.sleep(2000);

driver.get("");

}

@Test

public void titleValidationTest(){

String actualTitle = driver.getTitle();

String expectedTitle = "Tripillar Solutions";

Assert.assertEquals(actualTitle, expectedTitle);

assertTrue(true, "Title should contain 'Tripillar'");

}

@AfterTest

public void closeBrowser() throws InterruptedException {

Thread.sleep(1000);

driver.quit();

}

}

**After copying the above code goto terminal and type: gradle test.**

1. **Create Jar file: Copy paste the below code in build.gradle.**

**To Create Gradle jar**

plugins {

id 'java'

id 'application'

}

application {

mainClass = 'com.example.Main'

}

jar {

manifest {

attributes 'Main-Class': 'com.example.Main' // This tells Java where to start execution

}

}

**Jar file will be created under build🡪libs🡪jar file**

1. **Next using Jar file execute simple Main program.**

**Command to run Main program using jar File :**

Java -jar build/libs/pro then press tab(give 3 letters of program name then press tab which automatically takes the path).

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