

Assignments Module – 5 (Selenium IDE)

1. What is Automation Testing?

- ✓ Automation Testing is the process of using automation tools to execute test cases, compare actual outcomes with expected outcomes, and report results. It helps reduce manual intervention, improves accuracy, and accelerates the testing process.

Key Benefits:

- ✓ Faster testing
- ✓ Improved accuracy
- ✓ Reusable test scripts
- ✓ Ideal for regression and repeated testing

2. Which Are the Browsers Supported by Selenium IDE?

Selenium IDE supports:

- ✓ Google Chrome
- ✓ Mozilla Firefox

(Note: It does not support browsers like Safari, Internet Explorer, or Microsoft Edge)

3. What are the Benefits of Automation Testing?

- ✓ Faster Execution of Tests

- ✓ Reusable Test Scripts
- ✓ Reduces Manual Errors
- ✓ High Test Coverage
- ✓ Supports Continuous Integration (CI/CD)
- ✓ Saves Time and Cost in the Long Run

4. What are the Advantages of Selenium?

- ✓ Free and Open Source
- ✓ Supports Multiple Programming Languages (Java, Python, C#, JavaScript)
- ✓ Cross-Browser Support (Chrome, Firefox, Safari, Edge)
- ✓ Works Across Operating Systems (Windows, macOS, Linux)
- ✓ Easily Integrates with Tools like Jenkins, Maven, TestNG
- ✓ Large Community and Documentation
- ✓

5. Why Should Testers Choose Selenium Over QTP (UFT)?

Feature	Selenium	QTP/UFT
Cost	Free & Open Source	Paid Tool
Language Support	Java, Python, C#, JavaScript, etc.	Only VBScript
Browser Compatibility	All major browsers	Best with Internet Explorer
OS Support	Windows, macOS, Linux	Windows only
Integration	Easily integrates with CI/CD tools	Limited integration options
Community Support	Large, active community	Smaller, vendor-dependent community

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```
package Webdriver;
```

```
import java.sql.Driver;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebElement;
```

```
import org.openqa.selenium.chrome.ChromeDriver;
```

```
import org.openqa.selenium.support.ui.Select;
```

```
public class ValidateTops {
```

```
    public static void main(String[] args) throws  
    InterruptedException {  
        System.setProperty("webdriver.chrome.driver", "D:\\B\\autometi  
on driver\\chromedriver.exe");
```

```
        ChromeDriver driver = new ChromeDriver();
```

```
        driver.get("https://www.tops-int.com/python-training-  
course?utm_source=google_ads&utm_medium=Gads&utm_camp  
aign=Python_guj&gad_source=1&gad_campaignid=21959618298  
&gbraid=0AAAAADrYDqQBLyAcFBqp21IXx1wAnjk5_&gclid=CjwKC  
Ajw4K3DBhBqEiwAYtG_9M-  
Gkm_pj9bIlgC5yshVEcJNQ8xEMcJY52VH0d0xvS52Zh64XO1eHwRo  
Ck-0QAvD_BwE");
```

```
        Thread.sleep(2000);
```

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

```
        System.out.println(driver.getCurrentUrl());
```

```
Thread.sleep(1000);

System.out.println(driver.getTitle());

Thread.sleep(1000);

driver.findElement(By.xpath("//*[@id=\"inq_name\"]")).sendKeys
("bhum");

Thread.sleep(1000);

driver.findElement(By.xpath("//*[@id=\"inq_email\"]")).sendKeys
("bhumipatel90@gmail.com");

Thread.sleep(1000);

WebElement
contactfield=driver.findElement(By.name("contact"));

contactfield.sendKeys("8502525619");

Thread.sleep(2000);

driver.findElement(By.xpath("/html/body/div[1]/section[2]/div/div/div[2]/div[2]/form/div[3]/a")).click();

Thread.sleep(2000);

driver.close();

}}
```