#### **TUTORIAL 10**

10.Study and document working of WinRunner and prepare a comparison with other testing tools.

## **Study & Documentation: WinRunner**

#### What is WinRunner?

**WinRunner** is an **automated functional testing tool** developed by **Mercury Interactive**, which was later acquired by **HP**. It is designed for testing GUI-based applications and automating user interactions to validate software functionality.

**Primary Use**: Functional Regression Testing of applications.

#### **Features of WinRunner**

Feature Description

**Scripting Language** Test Script Language (TSL) – C-like scripting

**Recording Modes** Context Sensitive and Analog

**Application Support** Windows-based desktop applications

**Integration** Works with TestDirector/Quality Center

**Object Repository** Stores GUI objects for reuse

**Checkpoints** Allows validation of GUI objects, databases, and text

## How WinRunner Works (Step-by-Step)

#### Step 1: Launch WinRunner

- Open the WinRunner application.
- Choose the application under test (AUT).

#### **Step 2: Record Test**

• Use Context-Sensitive Mode to record user actions like clicking buttons, entering text, etc.

• WinRunner records actions in TSL (Test Script Language).

#### **Step 3: Insert Checkpoints**

- Add verification points (e.g., Text Checkpoint, GUI Checkpoint).
- Example: Validate whether a login button appears.

#### **Step 4: Save Test Script**

• Save the recorded script for future test runs.

#### **Step 5: Play Back the Script**

- Replay the script to simulate user actions.
- Compare actual vs expected results using checkpoints.

#### **Step 6: Analyze Test Results**

- WinRunner generates a test execution log.
- Errors and mismatches are highlighted for review.

## **Advantages of WinRunner**

- Easy to use with record & playback.
- Strong support for Windows applications.
- Integrates well with Quality Center.
- Customizable scripts using TSL.

### **Limitations of WinRunner**

- Only supports Windows desktop applications (not web/mobile).
- Deprecated no longer maintained or supported by HP.
- Licensing is costly compared to open-source tools.
- Lacks support for modern browsers and frameworks.

# **Comparison: WinRunner vs Other Tools**

Feature	WinRunner	Selenium	UFT/QTP	TestComplete
Developed By	Mercury (HP)	Open Source Community	HP / Micro Focus	SmartBear
Supports Web Apps	×	<b>V</b>	V	V
Supports Desktop Apps	V	×	<b>V</b>	<b>V</b>
Script Language	TSL (Proprietary)	Java, Python, C#, etc.	VBScript	JavaScript, Python
Record & Playback	V	✓ (via IDE)	<b>V</b>	V
Free / Paid	Paid (discontinued)	Free	Paid	Paid
<b>Browser Support</b>	Limited (old IE only)	Chrome, Firefox, Edge, etc.	Chrome, IE, Firefox	Chrome, IE, Edge
<b>Mobile Testing</b>	X	via Appium)	V	V
<b>Active Support</b>	X (discontinued)	V	V	V

## **Summary for Students**

Parameter Details

Tool Name WinRunner

Use Case GUI automation testing for Windows desktop apps

Script Language TSL

Main Features Recording, Checkpoints, Integration with QC

Limitations No web/mobile support, discontinued tool

Best Alternatives Selenium (web), UFT/QTP (desktop + web), TestComplete (UI-rich testing)

## **Suggested Student Activities**

Task Description

Practical 1 Study TSL scripting syntax (search archived documentation)

Practical 2 Watch legacy demo of WinRunner (YouTube or archived site)

Assignment Prepare comparison report between WinRunner and Selenium

Report Submit documentation with screenshots of tools compared

What is TSL? What is a checkpoint in WinRunner?

### Conclusion

Viva Questions

WinRunner was a pioneer in GUI automation testing but is now obsolete. Students should study it for **historical understanding** and compare it with **modern tools** like Selenium and UFT for practical applications.