QTP - CHECKPOINTS

What are CheckPoints?

Checkpoints, as the name says it all, it refers to a validation point that compares the current value for specified properties or current state of an object with the expected value which can be inserted at any point of time in the script.
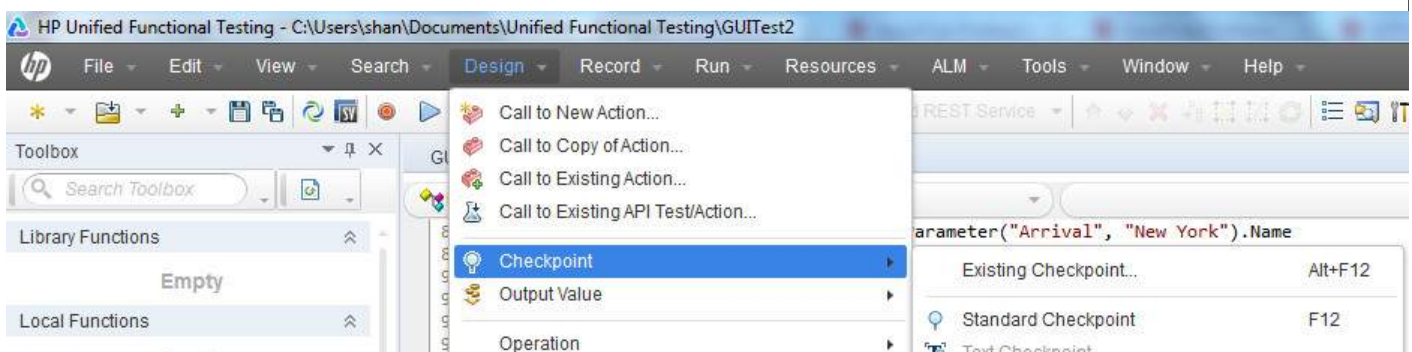
Types:

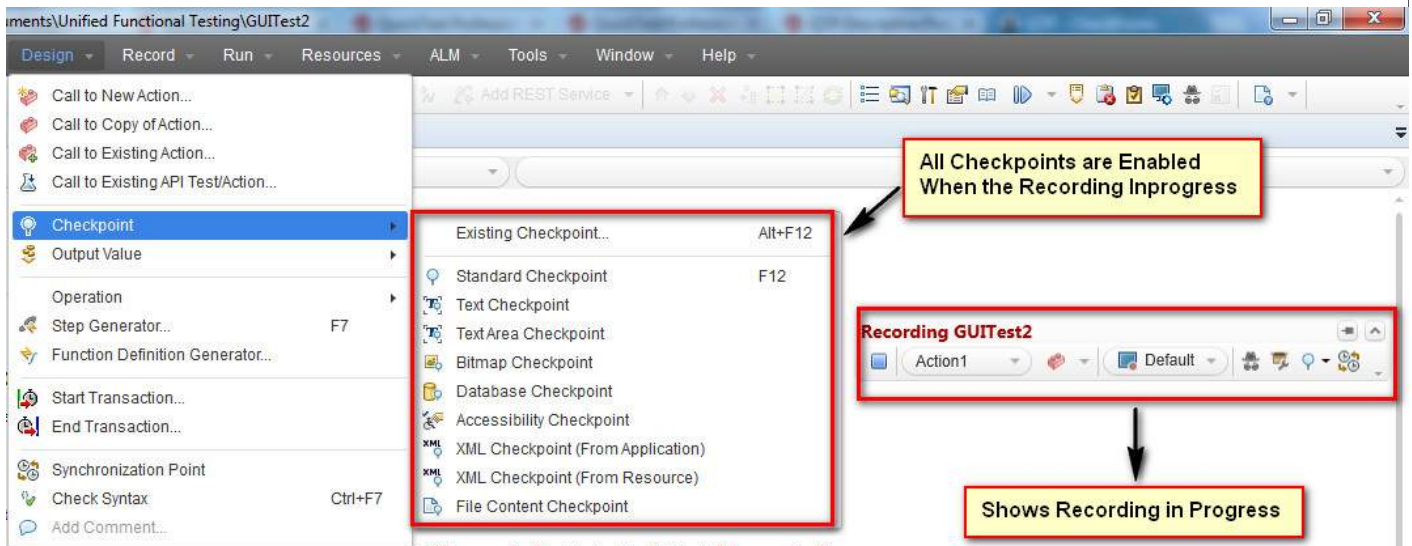| Type	Description
Standard Checkpoint	Verifies the property values of an object in application under test and supported by all add-in environments.
Bitmap Checkpoint	Verifies an area of your application as a bitmap
File Content Checkpoint	Verifies the text in a dynamically generated or accessed file such as .txt,.pdf
Table Checkpoint	Verifies the information within a table. Not all environments are supported.
Text Checkpoint	Verify if the text that is displayed within a defined area in a Windows-based application, according to specified criteria.
Text Area Checkpoint	Verifies if the text string is displayed within a defined area in a Windows-based application, according to specified criteria.
Accessibility Checkpoint	Verifies the page and reports the areas of the Web site that may not conform to the World Wide Web Consortium $W3C$ Web Content Accessibility Guidelines
Page Checkpoint	Verifies the characteristics of a Web page. It can also check for broken links.
Database Checkpoint	Verifies the contents of a database accessed by the application under test.
XML Checkpoint	Verifies the content of the .xml documents or .xml documents in Web pages and frames.

Inserting CheckPoint

When the user wants to insert a checkpoint, one has to ensure that most of the checkpoints are supported during the recording sessions only. Once the user stops recording, checkpoints are NOT enabled.

Below is the checkpoint menu, when the user is NOT in the recording mode.

Below is the checkpoint menu, when the user is in the recording mode.

Example:

The checkpoints are added for the application under test - "http://easycalculation.com/"

```
' 1. Inserted Standard Checkpoint
Status = Browser("Math Calculator").Page("Math Calculator").Link("Numbers").Check
CheckPoint("Numbers")

If Status Then
    print "Checkpoint Passed"
Else
    Print "Checkpoint Failed"
End if

' 2. Inserted BitMap Checkpoint
imgchkpoint = Browser("Math Calculator").Page("Math Calculator").Image("French").Check
CheckPoint("French")

If imgchkpoint Then
    print "Checkpoint Passed"
Else
    Print "Checkpoint Failed"
End if
```
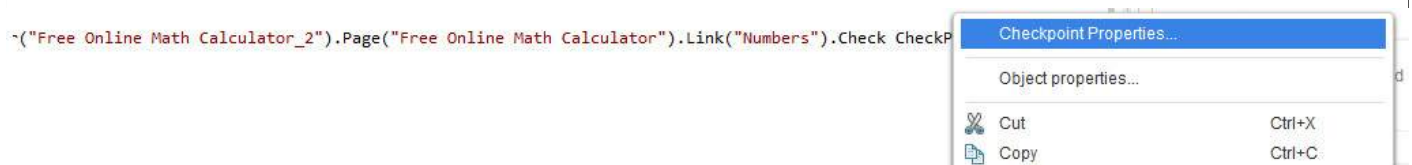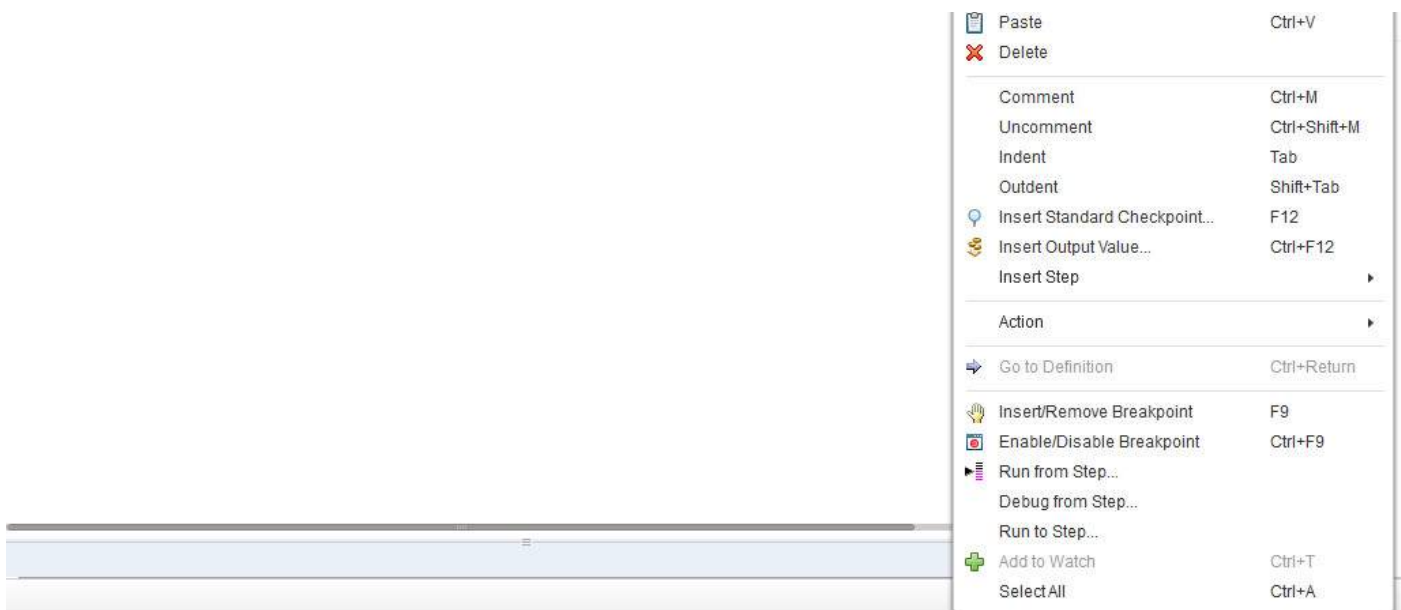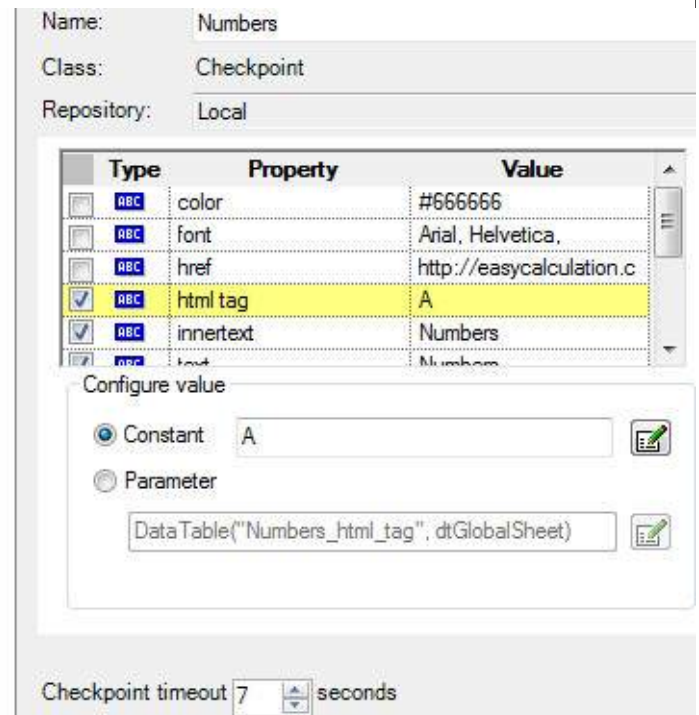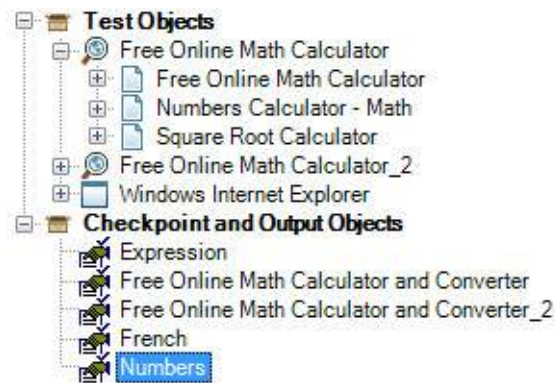
Viewing Checkpoint Properties

After Inserting, incase a tester want to change the values, we can do so by performing right click on the keyword 'checkpoint' of the script and navigating to "Checkpoint Properties" as shown below:

📋	Paste		Ctrl+V
✖	Delete		
	Comment		Ctrl+M
	Uncomment		Ctrl+Shift+M
	Indent		Tab
	Outdent		Shift+Tab
♀	Insert Standard Checkpoint...		F12
🐾	Insert Output Value...		Ctrl+F12
	Insert Step		▶
	Action		▶
➡	Go to Definition		Ctrl+Return
🖑	Insert/Remove Breakpoint		F9
🔴	Enable/Disable Breakpoint		Ctrl+F9
▶▌	Run from Step...		
	Debug from Step...		
	Run to Step...		
➕	Add to Watch		Ctrl+T
	Select All		Ctrl+A

You can locate the same checkpoints in object repository as well as shown below. It exactly shows what type of checkpoint and what are the expected values, time out values.