

Descriptive Programming

QTP scripts can execute only if the objects are present in the Object Repository. If the descriptions of the Objects are created using Descriptive programming when testers want to perform an operation on an object that is not present in the object repository.

* When objects in the application are very dynamic in nature.
* When the Object Repository grows big, it results in poor Performance as the size of the Object Repository increases.
* When the framework is built such that it has been decided not to use Object Repository at all.
* When testers want to perform an action on the application at run-time without having the knowledge of object's unique properties.

Debugging

* Debugging, in automation testing context, is a systematic process of spotting and fixing the coding issues in the automation scripts so that the script will be more robust and can spot the defects in the application.
* There are various ways to perform debugging using break points in QTP. Break Points can be inserted just by pressing "F9" or by using the Menu option "Run" -> "Inserting/Removing Break Point".
* After Inserting the Break point the "Red Colored" Dot and the line will be highlighted in RED.

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| **Method** | **ShortCut** | **Description** |
| Step Into | F11 | Used to execute each and every Step. Steps into the Function/Action and executes line by line. It pauses on each line after execution. |
| Step Over | F10 | Used to Step over the Function. Step Over runs only the current step in the active document. |
| Step Out | Shift+F11 | After Step Into the function, you can use the Step Out command. Step Out continues the run to the end of the function and then pauses the run session at the next line. |



Options in Break Point

* Various Options in Break Point can be accessed by Navigating 'Run' Menu.

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| **ShortCut** | **Description** |
| F9 | Insert/Remove BreakPoint |
| Ctrl+F9 | Enable/Disable BreakPoint |
| Ctrl+Shift+F9 | Clear All BreakPoint |