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| Utility Objects  QTP Provides the several utility objects to enhance the power of scripting.Utility Objects are the reserved objects in qtp.These objects can be used in reporting preferences during run time.  There are various Types of Utility Objects:  1)Crypt Object 2)Data Table Object 3)Description Object 4)Dot Net Factory Object 5)DT Parameter Object 6)DT Sheet Object 7)Environment Object 8)Extern Object 9)Local Parameter Object 10)Mercury Timers Object (Collection) 11)Mercury Timer Object 12)Parameter Object 13)Path Finder Object 14)Properties Object (Collection) 15)QC Util Object 16)Random Number Object 17)Recovery Object 18)Reporter Object 19)Repositories Collection Object 20)Repository Object 21)Services Object 22)Setting Object 23)System Monitor Object 24)Text Util Object 25)TSL Test Object 26)XML Util Object  Lets discuss some of them :  **1) Crypt Object**  It is used to encrypt a string which can be protected .It uses the Encrypt method .  Ex: User\_Name=Crypt.Encrypt("Jhon")  'It will show the string in a encrypted format'     Msgbox User\_Name    **2) DataTable Object**   It is used to retrieve the values from the datatable.It uses different methods like a)AddSheet b)DeleteSheet c)Export d)ExportSheet e)GetCurrentRow and so on...  Ex:DataTable.GlobalSheet.AddParameter "Name","James"    **3) Description Object**  Generally description object is used to store a set of properties for a particular class which can be accessed by description object.  Ex: Set W\_Edit=Description.Create()                        'Create a description for a webEdit'   W\_Edit("name").Value="q"                                 'Provide the value for that Webedit by using Object spy'  Browser("Google").Page("Google").WebEdit(W\_Edit).Set "Mindfire"    **4) DotNetFactory**  DotNetFactory is used to create an instance of .Net Objects and access its methods and properties.Its associated method is CreateInstance method.  Ex: Set Create\_Form = DotNetFactory.CreateInstance("System.Windows.Forms.Form", "System.Windows.Forms")  'It will create an instance of a blank Windows form object'  Create\_Form.Show    'It displays the form on the screen'  wait(2)    **5) DTParameter Object**   It is a parameter which can be accessed during run time by following methods or properties: >DTSheet.AddParameter >DTSheet.GetParameter  Ex:Show\_Param=DataTable.LocalSheet.AddParameter("UserName","Mindfire") 'This will show the newly created parameter in the run-time Data Table '     msgbox Show\_Param    **6) DTSheet Object** It is a Sheet which can be accessed during run time by following methods or properties: >DataTable.AddSheet >DataTable.GetSheet >DataTable.GlobalSheet >DataTable.LocalSheet  Ex: Show\_Param=DataTable.GetSheet("mysheet").AddParameter("UserName","Mindfire") 'This will take the sheet Id & it will add the parameter to that sheet'       Msgbox Show\_Param    **7) Environment Object** QTP Environment variables are special type of variables whose values persist across and are shared by all actions in a test.QTP environment variables can be used to share information across actions,recovery scenarios and libraries.  Ex:Environment.Value("My\_Var")=10    'It creates a new internal user-defined variable named My\_Var with a value of 10'    My\_Var=Environment.Value("My\_Var")    **8) Extern Object**   Extern is a reserved object in QTP which is instantiated and is used to call external procedures from an external dynamic-link library (DLL).Its associated method is Declare().It is used as a reference to external procedures in DLL.    **9) LocalParameter Object**  A local Parameter is used to parametrize the value of a step in a business component.  Ex: Par\_Val=Parameter.Item("UserName") 'The given argument is the name of the action parameter for which we want to retrieve the value '      Msgbox Par\_Val |
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**10) Reporter :**

This object is used to send the status notification to QTP test results window Syntax: Reporter.ReportEvent micPass,”Login”,”Login is successful” ‘Based on the above reporter, it will show in the test is passed

**11) Recovery :**

This recovery object is used to control the recovery scenarios during the run time Syntax Recovery.method Recovery.Activate (activate the recovery scenarios)