

Automation Introduction		
	Advantages of Automation	
	Criteria for Automation	
QTP Introduction		
	Test Pane Area	
	Recording Script	
Object Repository Introduction		
	How QTP Recognize objects in App	
	Writing Scripts on Web / Client -server app	
	Examples to Practice (recording scripts on app, Add objects in Rep and write script)	
VBScript		
	DataTypes	
	Declare Variables	
	Option Explicit	
	Conditonal Statements	if , if else, elseif
	Select Case Statement	
	Loop Statements	while, do...loop, for, for--each
	Examples to Practise (writing scripts on app like read data from listbox /combobox, application and Validate)	
	Array	
		Declare Array
		Dynamic Array
		Array functions
	Functions	
		Built in Functions
	Examples to Practise (using functions like split, mid, instr,...etc and validate data / text)	
		User Defined Functions
		Library functions
		Associate function Library (settings, executefile)
		Register user function to Test Objects
		Function Parameters
		Subroutines
		return values from function / return array
	Examples to Practice (write reusable functions for few scenarios and call the functions)	
	Working with External Applications	
		Flat Files
		Excel Applications
		Word Applications

		InternetExplorer Applications
		Outlook Applications
		XML Files
		Utility Objects in QTP (Textutil, Systemutil, XMLUtil, QCUTIL)
		DotnetFactory
		QTP AOM Model
	Examples to Practise for each API and Data Driven Test , parameterize TestData from Flatfiles, excel..etc)	
Descriptive Programming	Static Descriptive	
	Object Spy	
	Dyanamic Descriptive	
	Purpose of Descriptive Programming	
	Regular Expressions	RegExp Object
	Examples to Practice (write descriptive code for objects in app not able to work with Repository)	
Object Repository	About Repository	
	Types of Repository	
	Object Repository Configuration	Mandatory properties
		Assistive properties
		Ordinal Identifier
		Smart Identification
	Merge Repositories	
	Examples to practise	
Actions	Create new Action	
	Call to Existing Action	
	Copy of Action	
	Differences	
	Types of Actions	
	Action Parameters	
	Split Action	
	LoadandrunAction	
	Difference between Actions and Functions	
	Examples to Practice (creating few modules for scenarios and calling actions and Reuse)	
DataTable	Working with Datatable	
	Global and LocalSheet	
	DataTable methods	
	Import DataFrom excel and parameterise	
	Examples to Practice (parameterize data to the app like Create PO, sales..etc)	

Environment Variables	use of Env Variables	
	Load from External files , .txt / .xml files	
Recovery Scenarios	Introduction	
	Types of Exceptions	
	Working with Diff Recovery Events	
	Error handling	
Debug	Breakpoints	
	Step into	
	Step over	
	Step Out	
	Debug viewer	
Validations	Checkpoints (all 10 Checkpoints)	
	coding for each checkpoint	
	Database Connection programming	
	Examples to Practise (validation of data in DB, read data from app and validate)	
Output Values	Outputvalue checkpoints	
Miscellenius	Options in View menu	
	Transactions	
	Test Parameters	
	step generator	
	API programming (extern Object)	
	Webservices Testing	
	Working with Add-ins (.net, java...etc)	
	Examples	
How QTP recognize Non standard objects	Send keys (Wscript.Shell)	
	Analog Recording	
	Low level recording	
	Virtual objects	
	Mercury.Devicereplay	
Automation of Project	Analysis	
	Planning	
	Process of Designing Scripts	
	Run Scripts	
Automation Framework	Maintenance	
	Types of Framework	
	Designing Framework for our project (practise examples modularity, keyword driven on ERP app)	

Quality Center	Integration of QTP and QC	
	Run Scripts from QC	
	Scheduling scripts	
	QC API	



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