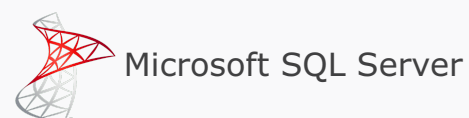


Fundamentals of Programming

Training Outline



Take first step towards Programming

CODING IS FUN

```
1 > if (typeof Object.assign != 'function') {  
2 >   (function () {  
3 >     Object.assign = function (target) {  
4 >       'use strict';  
5 >       if (target === undefined || target === null) {  
6 >         throw new TypeError('Cannot convert undefined or null to object');  
7 >       }  
8  
9 >       var output = Object(target);  
10 >      for (var index = 1; index < arguments.length; index++) {  
11 >        var source = arguments[index];  
12 >        if (source !== undefined && source !== null) {  
13 >          for (var nextKey in source) {  
14 >            if (source.hasOwnProperty(nextKey)) {  
15 >              output[nextKey] = source[nextKey];  
16 >            }  
17 >          }  
18 >        }  
19 >      }  
20 >      return output;  
21 >    };  
22 >  })();  
23 }
```

Programming Practices and Techniques

- Introduction to Programming Tools
- Flowcharts and Pseudo codes
- Algorithms
- Coding Techniques
- Code Compilation
- Debugging and Code Optimization
- Code Readability and Maintainability

HTML5 & CSS3

- Setting up a website environment
- Basic Formatting Tags
- Hyperlinks
- Table
- Adding CSS to HTML document
- CSS Styles
- Color Keywords, Text and Fonts
- CSS Box Model
- CSS Box Model and How to Manipulate Placement of Elements
- Block and Inline Elements;
- Div Tag
- Inserting Image
- Forms
- New HTML Tags
- Video, Footer and Nav Tags
- CSS Rule Set, Grouping, Nesting, Pseudo Classes and Pseudo Elements
- Position Property
- Navigational Menu
- Scalable Vector Graphics
- Video and Audio
- Canvas

C Programming

- Basics of C
- Variables and Data Types
- Operators and Expressions
- Input and Output in 'C'
- Condition
- Loop
- Arrays
- Pointers
- Functions
- Strings
- File Handling

BOOTSTRAP

- Responsive Web Design
- Bootstrap intro
- Mobile First Responsive Design
- Downloading Bootstrap
- Different ways to add Bootstrap to your page
- Container
- Bootstrap Grid System
- Multiple grids
- Rows and offsets
- Responsive images, videos, maps
- Bootstrap style vs your style
- Bootstrap themes
- Icons
- Buttons
- Typography
- Navigations
- Tables
- Lists
- Forms
- Headers
- Breadcrumbs
- Carousel
- Accordion
- Modal window
- Tab
- Tooltip
- Collapse

JavaScript

- JavaScript Program
- Attaching an External JavaScript File
- Statements
- Types of Data
- Variables
- Arrays
- Using Conditional Statements
- Repetitive Tasks with Loops
- Working with Words, Numbers, and Dates
- Events with Functions

AngularJS

- Introduction to AngularJS
- Single Page Applications
- Controllers
- Models
- Views
- Expressions
- Filters
- Scopes
- Directives

jQuery

- Introduction to jQuery
- Download & install jQuery
- Creating first page
- Integrating HTML codes
- jQuery css() method
- jQuery Data
- jQuery functions
- jQuery Arrays
- Working with JSON Data
- Using JSON Object
- Showing & Hiding Elements
- Fading Elements
- Sliding Elements

Database Programming MS SQL Server

- RDBMS Concepts
- Entity-Relationship (E-R) Model
- Normalization
- Introduction to SQL Server 2012
- Transact-SQL
- Creating and Managing Databases
- Creating Tables
- Accessing Data
- Advanced Queries and Joins
- Using Views, Stored Procedures
- Indexes
- Triggers
- Programming Transact-SQL
- Transactions
- Error Handling



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