HTML

Section 1

Coding Basics: Intro to HTML Syntax

- The HTML, head, title, & body tags
- Headings, paragraphs, & lists
- The strong & em tags
- The doctype
- The meta tag & the unicode character set

Coding Links: Absolute & Relative URLs

- Anchor tags & hrefs
- Linking to other websites
- Linking to pages within a website
- Opening a link in a new browser window/tab

Adding Images

- The break tag
- The image tag & source attribute
- Using the width, height, & alt attributes
- Using horizontal rules

Intro to Cascading Style Sheets (CSS)

- The style tag
- Tag selectors
- The font-size, font-family, color, & line-height properties
- Hexadecimal color codes

CSS

CSS Class Selectors

- The class attribute
- CSS class selectors
- The span tag
- CSS opacity

Div Tags, ID Selectors, & Basic Page Formatting

- Dividing up content with the div tag
- Assigning IDs to divs
- Setting width & max-width
- CSS background-color
- Adding padding inside a div

HTML5 Semantic Elements & Validating HTML

- The outline algorithm
- The header, nav, aside, & footer elements
- Understanding articles & sections
- The main element
- The figure & figcaption elements
- Checking for errors: validating your cod

JavaScript

1.General overview of JavaScript

- What is Javascript,

- JavaScript history,

- Relation between JavaScript and ECMAScript,

- Versions of JavaScript.

  JavaScript Core

2.Syntax, Variables, Values, Data Types

- Syntax review,

- Keywords and reserwed words,

- Variable declaration,

- Variable scope,

- Block scope.

3.Data Types

- Primitive values,

- Reference values,

- Types,

- Type convertion.

4. Expressions and Operators

   - Expressions (arithmetic, relational, logical, assigment and others),

   - Operators overview.

5. Control structures

   a. Flow control and conditionals,

   b. Loops and iteration.

   c. Jumps

6. Error handling

   a. Throwing errors,

   b. Error handling.

7. Numbers

   a. Number literals,

   b. Number object,

   c. Number methods,

   d. Math object

   e. Date object

   f. Working with Numbers.

8. Strings

   a. String literals,

   b. String object,

   c. String methods,

   d. Working with Strings.

9. Arrays

   a. Creating and populating Arrays,

   b. Array methods,

   c. Working with Arrays.

10. Functions

    a.   Defining functions,

    b.   Calling functions,

    c.   Functions as values,

    d.   Arguments and parameters,

    e.   Function scope,

    f.   Closures,

    g.   Arrow functions.

11. Indexed Collections

    a.   Set object type

    b.   Map object type

12. JSON

13. Iterators and generators

    a.   Working with Iterators

    b.   Working with Generators

14. Modules

15. Promises

16. Regular Expressions

    a.   Creating regular expressions,

    b.   RegExp object and its methods,

    c.   String methods for matching patterns.

17. Objects

    a.   Creating object,

    b.   Properties,

    c.   Methods,

    d.   Build-in JavaScript objects.