CSS Summary

Section	Topic and Content	Important Links

SEC-1	**Introduction to CSS and Environment Setup**
	
	1. Full form of CSS? Why CSS?
	2. Practical demo of CSS effect from W3School
	3. Visual studio code download and setup
	   a. Visual studio code tips and extension setup
	   b. Install extensions - live server, auto rename tag, bracket pair colorizer, color highlight, dummy text generator
	   c. Vs code shortcuts
	   d. How to enable Autosave
	   e. How to make Keyboard shortcuts
	4. How to add CSS –
	   a. Inline CSS,
	   b. Internal CSS,
	   c. External CSS
		Introduction to CSS Video - https://youtu.be/_5TU7eXKeyk
		
		Visual studio code setup - https://youtu.be/hFWrtwixdLo
		
		Inline CSS Video - https://youtu.be/9U--RckH_IM
		
		Internal CSS Video - https://youtu.be/7mQnjm8PI2w
		
		External CSS video – https://youtu.be/f9vqFrO-iXM

SEC-2	**CSS Selectors and Combinators** a. Tag / Element Selector – h1{…}, a, p, div, hr b. Class Selector (use dot to select), c. ID Selector (use # to select), d. Universal selector (*), e. Nested Selector (ul li a {…}, div p {…}) f. Grouping selector (h1, h2, h3 {...}) g. Combinators – descendent selectors, child selectors >, adjacent selectors +, general sibling selectors ~ h. Child selectors (li:first-child, li:last-child, tr:nth-child(odd)) i. Pseudo Selectors (a:hover{}, li:befor{}, li:after{})	CSS Selector reference - https://www.w3schools.com/cssref/css_selectors.asp Class and ID Selector Video - https://youtu.be/T4HuTcVgcFI More on Class and ID selector Video - https://youtu.be/c3ha4Dq_tdA

SEC-3	**CSS Typography – Font, Color, Text, Icon**
	
	1. Font
	   a. font-size: px / em / rem, [Dynamic font size: rem, 1 em / 1 rem = 16px = 100%]
	   b. font-weight: normal (400) / bold (700) / lighter / bolder / 100-900
	   c. font-style: italic / normal / oblique
	   d. font-family: serif (default),
	   e. How to use google font
	
	2. color – 4 ways to add color
	   a. Name of colors,
	   b. hexadecimal colors, (6 codes - 2 red, 2 green, 2 blue)
		Font Video - https://youtu.be/uK7HfuCuQqo
		
		Google font link - https://fonts.google.com/
		
		CSS Color Video - https://youtu.be/5_1AKxsu3-I

	c. RGB color, RGBA(210,210,8,.5) last one is opacity
	d. hsl (hue, saturation, lightness)
	e. How to use colorzilla plugin, how to use https://flatuicolors.com/
	
	3. Text Style
	  a) text-align: left / right / center / justify
	  b) text-transform: uppercase, lowercase, capitalize,
	  c) text-decoration: underline, none, overline, line-through
	  d) text-indent, letter-spacing, line-height, word-spacing (rem / pixel value can be used)
	  e) text-shadow: 5px 10px red (x y color)
	
	4. Icon
	  a. Emoji style
	  b. Image vs Icon (easily color change, image quality when zooming)
	  Example –
	   `<i class="far fa-address-card"></i>`
	  `<i style="color: red; font-size: 3rem;" class="far fa-address-card"></i>`
		CSS Text style Video – https://youtu.be/oAepBeB_7OU
		
		Unicode table website link - https://unicode-table.com/en/sets/
		
		How to style emoji video – https://youtu.be/7teTdhRIOCE
		
		Font awesome website Link - Font awesome new version website – https://fontawesome.com/
		
		New version CDN website - https://cdnjs.com/libraries/font-awesome
		
		CDN - https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.14.0/css/all.min.css

SEC-4	**CSS BOX Model – content, Padding, Border, Margin**
	
	1. **Content** / tag – heading or anything
	2. **Padding**
	  a) padding-top
	   padding-right
	   padding-bottom
	   padding-left,
	   padding:10 px (all side) / 10px 20px (top-bottom right-left)
	   padding: 10px 20px 10px (top, left-right, bottom)
	3. **Border**
	  a. Border: border-width border-color border-style (required)
	  b. Border-bottom: set all the properties for bottom
	  c. Border-bottom-width, border-bottom-color, border-bottom-style
	  d. rounded border – border: 5px solid red; border-radius: 5px 10px 5px 10px;
	  e. how to make a round image
	4. **Margin**
	  a) Margin,Margin-top, margin-right, margin-bottom, margin-left
	  b) Margin:0 auto, Set the universal margin and padding 0
	5. **CSS Box Model**
	6. **box-sizing and opacity**
		CSS Padding Video Link – https://youtu.be/rJVryFnIKMc
		
		CSS Border Video Link - https://youtu.be/6-9q_f1FgnI
		
		Margin Video Link - https://youtu.be/tKSQh7H-KJg
		
		CSS Box Model Video Link- https://youtu.be/eCBk8Liux1c
		
		Box-sizing and opacity video link – https://youtu.be/gJ4Cv6rHhZo

SEC-5	**Layout Design – float, z-index, position, display (inline, block), flex, grid**	Float video Link - https://youtu.be/XHnNLIlhmY0

	1. Float
	    a. float: left, right, none
	    b. clear floating row {content: ''; display: table; clear: both}; clear: left / right / both;
	2. z-index
	3. Display – inline, block, inline-block, flex, grid, none
	    a. Inline, block (take full width) , inline-block (as much needed, padding will work better), none - The element is completely removed
	
	4. Position property
	    a. **Static** (default)
	    b. **Relative** (top, left, right, bottom property)
	    c. **Absolute** (top, left, right, bottom property)
	    d. **Fixed** (top, left, right, bottom property)
	
	5. Flex Layout
	6. Grid Layout
	7. centring elements tricks
	    a. height: 100px; width: 100px; line-height: 100px;
	8. Background property
	    a. background-color, background-image, background-repeat, background-attachment, background-position
	    b. Gradient – background-image: linear-gradient(to right, green, orange)
		Inline and block element video - https://youtu.be/k7jjDliVgHo
		
		Position video link – https://youtu.be/b1OMtaPxzmU
		
		Flex layout video link - https://youtu.be/2McU9mRBk_8
		
		Grid Lyout video 1 – https://youtu.be/jMzHXPpy9Ts
		
		Grid Layout video 2 - https://youtu.be/1cPT8O42ts8
		
		Grid Layout Video 3 – https://youtu.be/E9cjmQy3dEY
		
		centring elements video link – https://youtu.be/K92e7WcJ5Xw
		
		Background video link – https://youtu.be/RROYuj-xoCU
		
		Gradient Video Link – https://youtu.be/kHoUjRfsh-A

SEC-6	**How to design**
	
	    1. Link
	    2. Table
	    3. Form
	    4. Card
	    5. Linkable Icon button
	    6. Drop-down menu
	    7. List item
	        i. List-style is a shorthand of above properties - list-style: square inside url("sqpurple.gif");
	        ii. Adding font awesome icon
		Styling link video - https://youtu.be/KS8EW01JE_I
		
		Table design video link - https://youtu.be/z9a6GjqPaAk
		
		Form design video link part 1 – https://youtu.be/i47T2jLdm6Y
		
		Form design video link part 2 – https://youtu.be/iH3z5MzggFY
		
		Card design video link – https://youtu.be/ct0SwtTH3pc
		
		Linkable icon button link – https://youtu.be/blL-0Us1gWY
		
		Drop down menu video link – https://youtu.be/BoOzeYtc2hI
		
		List design video link – https://youtu.be/kAhOgbuCG0Y

SEC-7	**CSS Animation**
	
	Shadow effects –
	a) text-shadow,
	b) box-shadow (x,y,blur,color)
	box-shadow: 5px 10px 5px rgba(0,0,0,0.5)
	last one is opacity
	c) transform
	    a. translate(x,y)
	    b. scale(2)
	    c. tskew(deg, deg)
	    d. rotate(50deg)
	    e. scale(2) rotate (360deg)
	d) Animated Progress bar
		Shadow effects video link –
		https://youtu.be/IglKvPNXxdQ
		
		transition and transform video link –
		https://youtu.be/i6YvNPK0ETQ
		
		Animated progress bar video link –
		https://youtu.be/2FuiXdQcqB0

SEC-8	**Responsive Web Design (RWD)**
	
	1. Responsive web design
	    a. Use box-sizing
	    b. Media query
	    c. Responsive Navigation menu,
	    d. Responsive column design
	    e. Responsive web design (RWD) using grid view
	    f. Responsive web design framework
		Media query Video link -
		https://youtu.be/uGCrWNawEJs
		
		Responsive navigation menu video –
		https://youtu.be/Qx9-iow_WzM
		
		Responsive column design –
		https://youtu.be/KH5YyDutRdA
		
		RWD using grid view part-1 video –
		https://youtu.be/c6stVlLz7RE
		
		RWD using grid view part-2 video –
		https://youtu.be/TSEyPbLuRxc

SEC-9	**Project** 8. Complete CV Project 9. Publishing your project on GitHub 10. Calculator design project 11. Portfolio Project	CV Project part-1 video link - https://youtu.be/ekIv1HfA4fs CV Project part-2 video link - https://youtu.be/GwCFFzUKIpQ CV project GitHub link - https://anisul-islam.github.io/CSS3_CV/ CV Project complete code - https://github.com/anisul-Islam/CSS3_CV How to Publish project on GitHub video Link – https://youtu.be/GwCFFzUKIpQ Calculator design project (part-1) https://youtu.be/P7SnVyHKHGg Calculator design project (part-2) https://youtu.be/5zPhBLGdJog

		Calculator design project GitHub link https://github.com/anisul-Islam/CSS3-Calculator-Design Portfolio project part-1 video link – https://youtu.be/bPJSGlMxFeI Portfolio project part-2 video link – https://youtu.be/o_OnE2U1mN4 Portfolio project part-3 video link – https://youtu.be/i4tgWS64TAo Portfolio project part-4 video link – https://youtu.be/k1oi5iEPe7M Portfolio project part-5 video link – https://youtu.be/JmPLp_8V8SU Portfolio project part-6 video link – https://youtu.be/JmPLp_8V8SU Portfolio project part-7 video link – https://youtu.be/S3cAl-PWd_Q Portfolio project part-8 video link – https://youtu.be/dGUfT6xV0zw
SEC-10	Resources 1) W3School 2) MDN 3) Sololearn **Few things to try** 4) Sidebar Menu Dashboard Template UI - Side Navigation Bar - Only Using CSS and HTML - https://www.youtube.com/watch?v=M-pil5oHw0w 5) https://www.youtube.com/watch?v=VuTjWcrFJTg&ab_channel=ThapaTechnical 6) Complete e-commerce website using html and CSS - https://www.youtube.com/watch?v=yQimoqo0-7g 7) Try this as well - https://www.youtube.com/watch?v=zmun7JzWGPE	