**🎯 Complete CSS Roadmap for Beginners (Bug to Brilliance)**

**🔹 Session 1: Introduction to CSS**

**Topics to Cover:**  
• What is CSS?  
• Why use CSS?  
• Inline, internal, and external CSS  
• Syntax: selector, property, value  
• Comments in CSS  
• Connecting CSS to HTML (style tag, link tag)

**Practice:**  
Apply background color, text color, and font using all three CSS methods.

**🔹 Session 2: CSS Selectors Deep Dive**

**Topics to Cover:**  
• Element, class, ID selectors  
• Grouping and combining selectors  
• Universal selector (\*)  
• Descendant, child, sibling selectors  
• Attribute selectors

**Practice:**  
Style a document using different types of selectors for headings, links, and images.

**🔹 Session 3: Colors, Units & Text Styling**

**Topics to Cover:**  
• Color formats: name, HEX, RGB, RGBA, HSL  
• Units: px, %, em, rem, vh, vw  
• Text styling: font-size, font-family, color  
• Text alignment, decoration, transform, letter-spacing

**Practice:**  
Style a content block with responsive units and creative text effects.

**🔹 Session 4: Box Model & Borders**

**Topics to Cover:**  
• Box model explained: content, padding, border, margin  
• Width, height  
• Border: style, width, color  
• Overflow, box-sizing

**Practice:**  
Build a box element and style it with padding, margin, and borders.

**🔹 Session 5: Background & Shadows**

**Topics to Cover:**  
• background-color, background-image  
• background-repeat, background-position  
• background-size, background-attachment  
• box-shadow, text-shadow

**Practice:**  
Create a styled card with shadows and a background image.

**🔹 Session 6: Display & Visibility**

**Topics to Cover:**  
• display: block, inline, inline-block, none  
• visibility: visible, hidden  
• opacity  
• Difference between display and visibility

**Practice:**  
Create boxes with different display and visibility styles.

**🔹 Session 7: Positioning**

**Topics to Cover:**  
• position: static, relative, absolute, fixed, sticky  
• top, right, bottom, left  
• z-index

**Practice:**  
Create a floating box layout and sticky navbar.

**🔹 Session 8: Float & Clear**

**Topics to Cover:**  
• float: left, right  
• clear: both, left, right  
• clearfix hack

**Practice:**  
Create a floated image with wrapped text and clear it properly.

**🔹 Session 9: Flexbox Masterclass**

**Topics to Cover:**  
• Flex container: display: flex  
• Main axis vs cross axis  
• justify-content, align-items, flex-direction  
• flex-wrap, align-content  
• flex-grow, flex-shrink, flex-basis, shorthand: flex

**Practice:**  
Build a responsive navigation bar or card layout using Flexbox.

**🔹 Session 10: Grid Layout**

**Topics to Cover:**  
• display: grid  
• grid-template-columns, grid-template-rows  
• grid-gap / gap  
• grid-area, grid-row, grid-column  
• Repeat, auto-fill, auto-fit

**Practice:**  
Build a responsive gallery or pricing table using CSS Grid.

**🔹 Session 11: Pseudo-classes & Pseudo-elements**

**Topics to Cover:**  
• :hover, :focus, :visited, :nth-child, :first-child  
• ::before, ::after  
• Styling tooltips, custom markers

**Practice:**  
Style buttons with hover effects and list items with ::before.

**🔹 Session 12: Media Queries & Responsive Design**

**Topics to Cover:**  
• min-width, max-width  
• Mobile-first design  
• Breakpoints  
• Hide/show elements based on screen size  
• Responsive typography & images

**Practice:**  
Convert a non-responsive layout into a responsive one using media queries.

**🔹 Session 13: Transitions & Animations**

**Topics to Cover:**  
• transition-property, duration, timing-function  
• transform: scale, rotate, translate  
• keyframes & animation  
• hover animations, looping animations

**Practice:**  
Build a hover-based button animation and card reveal animation.

**🔹 Session 14: Forms & Buttons Styling**

**Topics to Cover:**  
• Styling inputs, selects, checkboxes, radio buttons  
• Custom placeholders  
• Focus, active, hover states  
• Button hover, active, and disabled states

**Practice:**  
Style a login form or contact form from scratch.

**🔹 Session 15: Final CSS Project + Recap**

**Mini Project Ideas:**  
• Personal portfolio  
• Responsive product landing page  
• Blog layout  
• Styled contact form

**Recap:**  
• Best practices  
• Common mistakes to avoid  
• Maintaining scalability and reusability