1. create a list of standard attributes and their possible values, uses in html.

Answer

1. Content and Structure (High Usability):

- id (Values: Unique identifier) Uniquely identifies an element for styling and scripting.
- class (Values: Space-separated keywords) Assigns a class name to an element for group styling and scripting.
- lang (Values: Language code (e.g., "en", "es")) Specifies the language of the element's content.
- title (Values: Text) Provides additional information displayed as a tooltip on hover.
- style (Values: CSS styles in curly braces) Applies inline CSS styles directly to the element.

2. Links and Navigation (High Usability):

- target (**Values:** Window name, "_blank" (new window), "_self" (current window), etc.) Specifies the target window or frame where a linked document should open.
- rel (Values: Link relationship type (e.g., "stylesheet", "alternate")) Defines the relationship between the current document and the linked resource.
- type (Values: Media type (e.g., "text/css")) Specifies the type of linked resource (e.g., stylesheet, script).

3. Images and Multimedia (Medium Usability):

- src (Values: URL) Defines the path to the image file for and the source of media for <audio> and <video>.
- alt (Values: Text description) Provides alternative text for images, crucial for accessibility and SEO.
- width & height (Values: Positive integers with units (px, %, etc.)) Sets the width and height of the displayed image or media.
- poster (Values: URL) Specifies an image to be displayed before a video starts playing.

4. Forms and User Input (Medium Usability):

- type (Values: Varies based on input type (e.g., "text", "email", "checkbox")) Defines the type of input field and how browsers handle the input.
- name (**Values:** Unique identifier) Assigns a name to the input element for form submission and scripting.
- value (Values: Pre-filled text or selected value) Sets the initial value displayed in the input field.
- placeholder (Values: Text) Provides hint or instructional text displayed within the input field.
- checked (Values: Boolean (present or absent)) Indicates a pre-selected checkbox or radio button.
- required (Values: Boolean (present or absent)) Makes the input field mandatory (user must fill it before submitting the form).

5. Tables (Low to Medium Usability - Depending on Usage):

- rowspan & colspan (Values: Positive integers) Defines how many rows/columns a table cell should span.
- border (Values: Integer specifying border width, or "collapse" for a collapsed border) Sets the border style of the table.

• caption (Values: Text) - Adds a caption to the table.

6. Other Useful Attributes:

- srcset (**Values:** Comma-separated list of image sources with widths) Provides options for responsive image selection based on screen size.
- disabled (Values: Boolean (present or absent)) Disables an element (button, input field) making it uninteractable.
- readonly (Values: Boolean (present or absent)) Makes an input field read-only (user can't edit the value).
- placeholder (Values: Text) Provides hint or instructional text displayed within various elements (not just form inputs).
- contenteditable (Values: Boolean (true, false, "inherit")) Allows users to edit the content of an element directly within the browser.
- 2. find out all possible properties, all possible values of a property and uses of CSS.

Text Properties:

- color: Defines text color (e.g., "red", "#ff0000", "rgb(255, 0, 0)").
- font-family: Specifies the font family (e.g., "Arial", "serif", "cursive").
- font-size: Sets the font size (e.g., "14px", "1em", relative units like %).
- font-weight: Controls font weight (e.g., "normal", "bold", numerical values).
- text-align: Aligns text within the element (e.g., "left", "center", "right").
- text-decoration: Applies decorative styles (e.g., "none", "underline", "overline").
- line-height: Sets the distance between lines of text (e.g., "1.5", units like px or em).
- letter-spacing: Adjusts spacing between characters (e.g., "normal", positive/negative values for px).

Box Model Properties:

- margin: Sets margins around the element (individual values for top, right, bottom, left, or shorthand for all). Units like px, em, or %.
- padding: Adds space within the element's border (individual values or shorthand for all). Units like px, em, or %.
- border: Defines the border style of the element (individual values for width, style, color, or shorthand for all). Units for width (px, em), color as with text color.
- width & height: Sets the width and height of the element (various units like px, em, %, or auto).

Background Properties:

- background-color: Sets the background color (same value options as text color).
- background-image: Defines a background image (URL referencing the image file).
- background-repeat: Controls how a background image repeats (e.g., "no-repeat", "repeat").
- background-position: Positions the background image (e.g., "center", "top left", using keywords or lengths).

Positioning Properties:

- position: Sets the positioning of the element (e.g., "static", "relative", "absolute", "fixed").
- top, right, bottom, left: Used with position to define the element's location relative to its container (units like px, em, %).

• z-index: Sets the stacking order of positioned elements (higher values appear on top).

List Properties:

- list-style: Sets list properties (e.g., "none", "disc", "circle", image URL for custom list style).
- list-style-position: Positions list item markers (e.g., "inside", "outside").

Flexbox Properties:

- display: Can be set to "flex" or "inline-flex" to enable flexbox layout.
- flex-direction: Defines the direction of flex items (e.g., "row", "column", "row-reverse").
- justify-content: Aligns flex items along the main axis (e.g., "flex-start", "center", "space-between").
- align-items: Aligns flex items along the cross axis (e.g., "flex-start", "center", "baseline").

Grid Properties:

- display: Can be set to "grid" to enable grid layout.
- grid-template-columns: Defines the layout of columns in the grid (e.g., "repeat(3, 1fr)", fractions, or minimum content).
- grid-template-rows: Defines the layout of rows in the grid (same options as columns).
- grid-gap: Sets the gap between grid items (units like px or em).