Q.1. Explain the difference between id selector and class selector.

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1. Id selector :

 An ID selector is used to select an element based on its unique identifier.

 Syntax: It starts with a # followed by the ID name. For example, #header.

 Unique: IDs must be unique within the HTML document. This means that an ID can only be assigned to one element on a page.

 Specificity: IDs have a higher specificity in CSS than classes. This means that styles defined with an ID selector will override styles defined with a class selector for the same element.

1. Class selector:

 A class selector is used to select elements that have a specific class attribute.

 Syntax: It starts with a . followed by the class name. For example, .btn or .container.

 Reusability: Classes can be applied to multiple elements within the same HTML document, allowing for the same styling to be applied to different elements.

 Specificity: Classes have lower specificity compared to IDs. If styles are defined both with a class selector and an ID selector for the same element, the ID selector's styles will take precedence.