**Module (Bootstrap Basic & Advanced) – 6**

1. **What are the advantages of Bootstrap?**

* Easy to use: Bootstrap is designed to be easy to use, even for developers who are new to front-end development.
* Pre-designed UI components: Bootstrap includes a large collection of pre-designed UI components, such as forms, buttons, dropdowns, navigation menus, and modals.
* Cross-Browser Compatibility: Bootstrap includes a set of standardized CSS and JavaScript files that have been tested and optimized to work well on all modern browsers.
* Responsive Design: Bootstrap's grid system is based on a 12-column layout that can be easily customized to create responsive web designs that work on different screen sizes.

1. **What is a Bootstrap Container, and how does it work?**

* A Bootstrap container is a pre-built CSS class used to create a fixed-width container for webpage content. It helps to center and make the content visually appealing and easy to read, regardless of the screen size. It comes in various predefined widths, including .container, .container-fluid, and .container-xl.

1. **What are the default Bootstrap text settings?**

* Bootstrap provides several classes for text formatting that can be used to change the color, size, weight, and other properties of the text.
* The default Bootstrap text settings include the classes text-left, text-center, text-right, text-justify, text-no wrap, text-lowercase, text-uppercase, text-capitalize, font-weight-bold, font-weight-normal, font-weight-light, font-italic, and text-muted.

1. **What do you know about the Bootstrap Grid System?**

* The Bootstrap Grid System is a feature of the Bootstrap framework used for creating responsive, mobile-first layouts using a 12-column grid system.
* The grid system includes classes for defining gutters between columns and rows.
* The grid system is designed to be mobile-first and responsive, meaning that it adjusts to the size of the screen on which it is viewed.

1. **What is the difference between Bootstrap 4 and Bootstrap 5?**

**Bootstrap 5:**

* CSS custom properties: Bootstrap 5 introduced CSS custom properties, which allow for more flexibility and customization in styling.
* Improved grid system: Bootstrap 5 includes a more simplified grid system with new classes that allow for easier customization and control over layout.
* Utility classes: Bootstrap 5 added new utility classes for text and spacing, making it easier to adjust these properties without writing custom CSS.
* JavaScript plugins: Bootstrap 5 removed jQuery dependency for its JavaScript plugins and introduced vanilla JavaScript plugins, making it lighter and faster.
* New components: Bootstrap 5 includes several new components, such as accordion, off-canvas, and switch, making it easier to build complex user interfaces.

**Bootstrap 4:**

* Flexbox grid system: Bootstrap 4 introduced a new grid system based on Flexbox, which provides more flexibility in positioning and aligning elements.
* Improved typography: Bootstrap 4 included new typography classes for improved font sizing and line-height, as well as support for responsive headings.
* New components: Bootstrap 4 included several new components, such as cards and tags, as well as improvements to existing components like the navbar and dropdown.
* Improved documentation: Bootstrap 4 had improved documentation with more detailed examples and explanations.

1. **What is a Button Group, and what is the class for a basic Button Group?**

* A Button Group is a set of buttons that are grouped together visually, usually with a common purpose or function. The buttons in a button group can be displayed horizontally or vertically and can be used to create sets of related actions or options.
* In Bootstrap, the class for a basic Button Group is .btn-group. This class is used to group a set of buttons together and create a cohesive appearance. The buttons within the group are defined with the .btn class, and can be further customized with additional classes such as .btn-primary or .btn-danger to change their appearance.
* Bootstrap also provides additional classes such as .btn-group-lg, .btn-group-sm, and .btn-group-vertical for further customization of button groups.

1. **How can you use Bootstrap to make thumbnails?**

* In Bootstrap, you can use the .card class to create a thumbnail, which is a small image or video with additional information and functionality.

1. **In Bootstrap 4, what is flexbox?**

* Bootstrap 4's Flexbox is a layout model used for creating responsive and flexible page layouts. It allows for the alignment and distribution of elements within a container along a single axis. The Flexbox model is used for creating the grid system, which is the core layout system of the framework.

1. **How can one create an alert in Bootstrap?**

* In Bootstrap, you can create an alert using the .alert class.

1. **What is a bootstrap card and how would you create one?**

* A Bootstrap card is a flexible and extensible content container that displays a variety of information, such as text, images, links, and more. It provides a simple and customizable way to display content in a visually appealing way.