**Bootstrap Assignment**

• What are the advantages of Bootstrap? **Advantages of Bootstrap**

1. **Responsive Design**: Bootstrap's grid system allows for creating responsive designs that work across various devices and screen sizes.
2. **Consistent Design**: Provides a consistent design framework, ensuring a uniform appearance across different browsers and devices.
3. **Pre-styled Components**: Offers a wide range of pre-styled components like buttons, forms, modals, and navigation bars.
4. **Customizable**: Easily customizable using Sass variables and Bootstrap’s customizer.
5. **Extensive Documentation**: Comprehensive documentation with examples and usage guidelines.
6. **Community Support**: Large community support with numerous resources, plugins, and themes.

• What is a Bootstrap Container, and how does it work?

**Bootstrap Container**

**A Bootstrap Container is a fundamental layout element that is used to contain and center your site's content. Containers are used to create a responsive, fixed-width or full-width layout.**

* **Types of Containers**:
  + **.container**: Provides a responsive fixed-width container.
  + **.container-fluid**: Provides a full-width container, spanning the entire width of the viewport.

• What are the default Bootstrap text settings?

**Default Bootstrap Text Settings**

* **Text Alignment**: **text-left**, **text-center**, **text-right**, **text-justify**.
* **Text Transform**: **text-lowercase**, **text-uppercase**, **text-capitalize**.
* **Font Weight and Italics**: **font-weight-bold**, **font-weight-normal**, **font-weight-light**, **font-italic**.
* **Monospace Text**: **text-monospace**.
* **Text Color**: **text-primary**, **text-secondary**, **text-success**, **text-danger**, **text-warning**, **text-info**, **text-light**, **text-dark**, **text-body**, **text-muted**, **text-white**.

• What do you know about the Bootstrap Grid System?

**Bootstrap Grid System**

**The Bootstrap Grid System uses a series of containers, rows, and columns to layout and align content. It’s built with flexbox and is fully responsive.**

* **Grid Structure**:
  + **Container**: Fixed-width or full-width container.
  + **Row**: Creates a horizontal group of columns.
  + **Columns**: **.col**, **.col-sm-**, **.col-md-**, **.col-lg-**, **.col-xl-**, with numbers 1-12 to specify the number of columns to span.

• What is the difference between Bootstrap 4 and Bootstrap 5

**Differences Between Bootstrap 4 and Bootstrap 5**

1. **jQuery**: Bootstrap 5 has removed jQuery dependency.
2. **Grid System**: Improved grid system with new utilities and classes.
3. **Forms**: Enhanced and simplified form controls.
4. **Icons**: Bootstrap 5 includes a new icon library.
5. **JavaScript Plugins**: Improved and rewritten JavaScript plugins.
6. **Responsive Font Sizes**: Introduced responsive font sizes.

• What is a Button Group, and what is the class for a basic Button Group?

**Button Group and Class for a Basic Button Group**

**A Button Group allows you to group a series of buttons together on a single line.**

* **Class for Button Group**: **btn-group**

• How can you use Bootstrap to make thumbnails?

**Creating Thumbnails with Bootstrap**

**Bootstrap provides classes to create thumbnails using the .img-thumbnail class.**

• In Bootstrap 4, what is flexbox?

**Flexbox in Bootstrap 4**

**Flexbox is a layout model that allows elements within a container to be dynamically arranged. Bootstrap 4 utilizes Flexbox to create a responsive grid system and align elements.**

• How can one create an alert in Bootstrap?

**Creating an Alert in Bootstrap**

**To create an alert in Bootstrap, use the .alert class along with contextual classes like .alert-success, .alert-danger, .alert-warning, etc.**