Layout

1. **Is there any relationship between Bootstrap and JavaScript?**
   Yes, there is a relationship between the two technologies. Some Bootstrap components require JavaScript to work properly.
   Some of the components that require JavaScript are shown in the below list:
   - Alerts – To close alerts
   - Buttons – To toggle buttons
   - Checkbox – For checkbox functionality
   - Radio button – For radio button functionality
   - Carousels – For sliding behaviour of carousels
   - Dropdowns – For displaying and positioning dropdowns
   - Modals – For displaying, positioning, and scrolling modals
   - Navbar – To extend collapse plugin to implement responsive behaviour
   - Toasts – For displaying and dismissing toasts
   - Tooltips – For displaying and positioning tooltips
   - Popovers – For displaying and positioning popovers
   - Scrollspy – For scrolling behaviour and navigation updates

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

   The following are some advantages of Bootstrap:
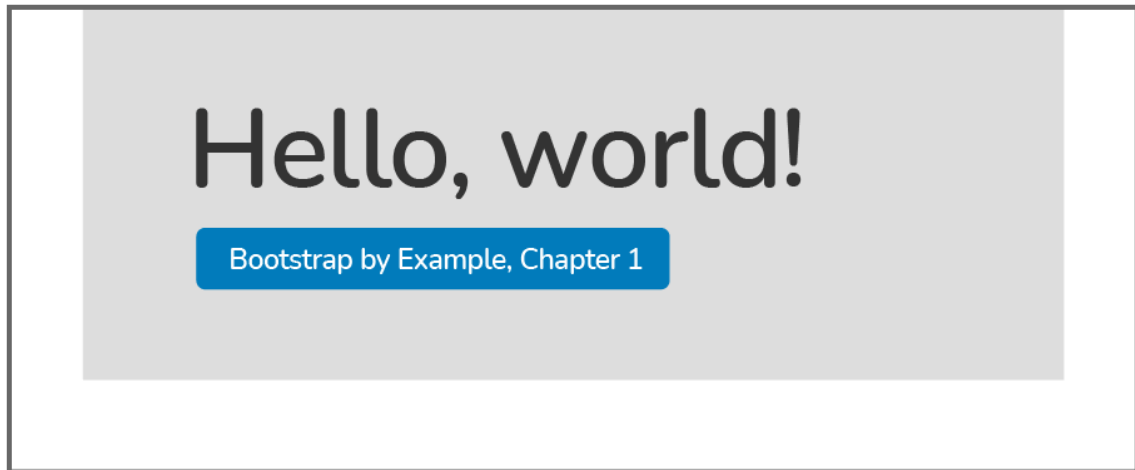
   - Bootstrap is simple to use and anyone with a basic understanding of HTML and CSS can get started.
   - Features that adapt to phones, tablets, and desktops: Bootstrap's responsive CSS adapts to phones, tablets, and desktops.
   - A mobile-first strategy: Mobile-first styles are built into the Bootstrap framework.
   - Bootstrap 4 is compatible with all modern browsers, including Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera.

3. **What is a Bootstrap Container, and how does it work?**
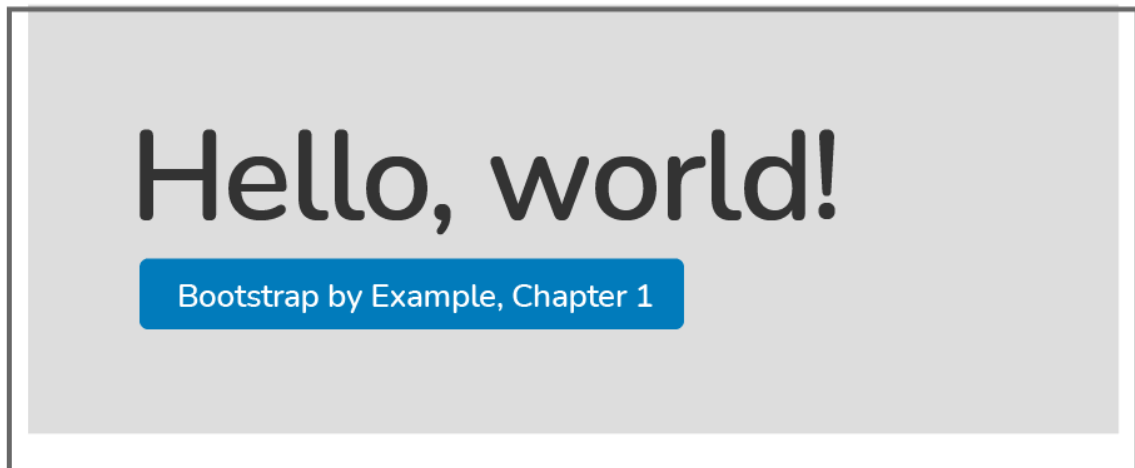
   A bootstrap container is a handy class that generates a central region on the page where we can put our site content. The bootstrap .container has the advantage of being responsive and containing all of our other HTML code. Containers are used to pad the content within them, and there are two types of containers:

   - The .container class creates a fixed-width container that is responsive.
   - The .container-fluid class creates a full-width container that spans the entire viewport width.

Fixed width (.container class)

Hello, world!

Bootstrap by Example, Chapter 1

Fluid width (.container-fluid class)

Hello, world!

Bootstrap by Example, Chapter 1

4. What are the default Bootstrap text settings?

The default font size in Bootstrap 4 is 16px, with a line-height of 1.5.

The default font family is "Helvetica Neue," which includes Helvetica, Arial, and other sans-serif fonts.

Margin-top: 0 and margin-bottom: 1rem are also set on all <p> elements (16px by default).

5. What do you know about the Bootstrap Grid System?

The Bootstrap Grid System is a mobile-first, responsive grid system that scales up to 12 columns as the device or viewport size grows. Predefined classes for quick layout options and powerful mix-ins for creating successful semantic layouts are included in the system.

There are five classes in the Bootstrap 4 grid system:

- .col- for extra small devices, whose screen width is less than 576px.
- .col-sm- small devices, whose screen width is equal to or greater than 576px.
- .col-md- medium devices, whose screen width is equal to or greater than 768px.
- .col-lg- large devices, whose screen width is equal to or greater than 992px.
- .col-xl- extra large devices, whose screen width is equal to or greater than 1200px.

The classes listed above can be combined to build layouts that are more dynamic and adaptable.

6. What is the difference between Bootstrap 4 and Bootstrap 5

PARAMETER	BOOTSTRAP 4	BOOTSTRAP 5
Grid System	5 tier grid system(xs, sm, md, lg, xl).	6 tier grid system(xs, sm, md, lg, xl, xxl).
Color	It has limited colors.	Extra colors have been added with the looks.
Jquery	It has jQuery along with all the related plugins.	Jquery is removed and it has switched to vanilla JS with some working plugins.
Internet Explorer	Bootstrap 4 supports both IE 10 and 11.	Bootstrap 5 doesn't support IE 10 and 11.
Form	Radio buttons and checkboxes look	The look of form elements does not

PARAMETER	BOOTSTRAP 4	BOOTSTRAP 5
elements	different in different OS and browsers.	change on different OS or browsers.
Utilities API	Utilities cannot be modified in Bootstrap 4.	Bootstrap 5 allows us to modify and also create our own utility.
Vertical Classes	Relative positioning of columns is allowed.	Relative positioning of columns is not allowed.
Bootstrap Icons	Bootstrap 4 doesn't have its own SVG icons.	Bootstrap 5 has its own SVG icons.
Jumbotron	Bootstrap 4 supports the jumbotron.	Bootstrap 5 doesn't support the jumbotron.
Card deck	The card deck class, used to create a set of cards with equal width and height, is available in bootstrap 4.	Card deck class has been removed in bootstrap 5.
Navbar	We have the inline-block attribute, and the default for the dropdown-menu-dark class is a white dropdown.	The inline-block property has been removed, and the dropdown-menu-dark class now uses a black dropdown as the default.
Static Site Generator	Jekyll software is used by Bootstrap 4.	Hugo software is used by Bootstrap 5.