Module – 5 Bootstrap Basic & Advanced

1. What are the advantages of Bootstrap?
⇨ Bootstrap is a robust and widely used front-end framework that streamlines the web development process. Here are the advantages of it:
   1. Speedy Development
   2. Responsive by Design
   3. Consistent UI element
   4. Cross-Browser compatibility
   5. Flexible Customization
   6. Community Support

2. What is a Bootstrap Container, and how does it work?
⇨ Bootstrap containers are the most basic layout element in Bootstrap. Bootstrap containers are very essential and basic building blocks of bootstrap that wrap a page's content. It's responsible for setting and aligning content within it according to viewpoint or given device. Containers are defined within the container class (.container).

3. What are the default Bootstrap text settings?
⇨ Bootstrap 5 uses a default font-size of 1rem (16px by default), and in addition, all <P>element have margin-top: 0 and margin-bottom: 1rem (16px by default).

4. What do you know about the Bootstrap Grid System?
⇨ Grid System: Bootstrap grid system allows up to 12 columns across the page. We can use each of them individually or merge them together for wider columns. We can use all combinations of values summing up to 12. We can use 12 columns each of width 1, or use 4 columns each of width 3 or any other combination.

5. What is the difference between Bootstrap 4 and Bootstrap 5?
⇨ The main difference between bootstrap4 and bootstrap 5 is that Bootstrap 5 has made several significant changes and improvements over Bootstrap 4, including the removal of jQuery as a dependency, improved support for CSS custom properties, new form controls, improved grid system, and updated icon library.

6. What is a Button Group, and what is the class for a basic Button Group?
⇨ "Button Groups" in bootstrap is a class of name "btn-group" which is used to create a series of button in groups (without spaces) vertically or horizontally.

7. How can you use Bootstrap to make thumbnails?
⇨ Bootstrap provides an easy way to create image thumbnails. Here's you can generate thumbnails using bootstrap :

⇨ For each image, use an <a> tag with the class thumbnail. Inside the <a> tag, include an <img> element with the src attribute pointing to image file. Adjust the style attribute to set the desired height and width for the thumbnail.

8. In Bootstrap 4, what is flexbox?
⇨ In bootstrap 4, flexbox is a powerful layout system that allows to create flexible and responsive designs. It provides an efficient way to distribute space and align items within a container, making it easier to create complex layouts without relying on floats and positioning.

9. How can one create an alert in Bootstrap?
⇨ Alert are created with the .alert class, followed by one of the four contextual classes .alert-success, .alert-info, .alert-warning or .alert-danger.

10. What is a bootstrap card and how would you create one?
⇨ A card in bootstrap is a bordered box with some padding around its content. It includes options for header, footer, content, colors, etc.
⇨ A basic car is created with the .card class, and content inside the card has a .card-body class. The .card-header class adds a heading to the card and .card-footer class adds a footer to the card. To add background color to the card, use contextual classes (.bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark, .bg-light). Use .card-title to add titles to any heading element. Add .card-img-top or .card-img-bottom to an <img> to place the image at the top or at the bottom inside the card.