**1. Name 5 different Bootstrap components and describe how they work.**

* **Jumbotron:** This enlarges and makes particular content or information more noticeable and attractive. For example:

<div class="container">

<div class="jumbotron">

<h1 class="text-center text-success">

Hello World!

</h1>

<h3>introduction</h3>

<p>

Bootstrap is a set of tools available for free and can be used to develop responsive websites and web applications. It is also open-source, meaning its source code is available for anyone to access, use and modify.

</p>

</div>

</div>

* **Alerts:** A pre-defined message that pops up after a particular action. For example:

<an alert!>

<h1>Alert:</h1>

<div class="alert alert-info"

role="alert">

an alert!

</div>

* **Buttons:** Customizable buttons that can trigger actions in forms, dialogue boxes, and more. They come in different sizes, styles, and states. For example:

<button

type="button"

class="close"

data-dismiss="modal"

aria-label="Close">

<span aria-hidden="true">×</span>

</button>

* **Button group:** A set of buttons arranged in a line, which can be aligned vertically or horizontally. For example:

<div class="modal-footer">

<button type="button"

class="btn btn-primary"

data-dismiss="modal">

Close

</button>

<button type="button"

class="btn btn-secondary">

Save

</button>

</div>

* **Badge:** A label used to provide additional information.

<h1>Example heading <span class="badge badge-secondary">New</span></h1>

<h2>Example heading <span class="badge badge-secondary">New</span></h2>

<h3>Example heading <span class="badge badge-secondary">New</span></h3>

<h4>Example heading <span class="badge badge-secondary">New</span></h4>

<h5>Example heading <span class="badge badge-secondary">New</span></h5>

<h6>Example heading <span class="badge badge-secondary">New</span></h6>

**Sources:**

<https://www.geeksforgeeks.org/explain-the-components-of-bootstrap/>

<https://getbootstrap.com/docs/4.0/components/badge/>

**2. How does the Bootstrap grid system work?**

Bootstrap's grid system relies on a sequence of containers, rows, and columns to organize and align content. For example:

<div class="container">

<div class="row">

<div class="col-sm">

One of three columns

</div>

<div class="col-sm">

One of three columns

</div>

<div class="col-sm">

One of three columns

</div>

</div>

</div>

The example above utilizes pre-existing grid classes to generate three equally-sized columns across small, medium, large, and extra-large devices. These columns are centered on the page using the parent element, .container.

**Source:**

<https://getbootstrap.com/docs/4.0/layout/grid/>