Program 7: Develop a Web page(s) with suitable HTML elements to demonstrate Bootstrap 5.0 framework classes for Images, Cards and Gutters.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Bootstrap 5 Demo</title>

<link href="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0/css/bootstrap.min.css" rel="stylesheet">

</head>

<body>

<div class="container mt-5">

<h1 class="mb-4">Bootstrap 5.0 Demo</h1>

<!-- Images Section -->

<section>

<h2>Images</h2>

<div class="row">

<div class="col-md-4">

<img src="D:/Wallpapers/abc.jpg" class="img-fluid rounded" alt="Responsive image">

<p>Responsive image with rounded corners</p>

</div>

<div class="col-md-4">

<img src="D:/Wallpapers/om.jpg" class="img-thumbnail" alt="Thumbnail image">

<p>Thumbnail image</p>

</div>

<div class="col-md-4">

<img src="D:/Wallpapers/nature.jpg" class="img-fluid rounded-circle" alt="Circular image">

<p>Circular image</p>

</div>

</div>

</section>

<!-- Cards Section -->

<section class="mt-5">

<h2>Cards</h2>

<div class="row">

<div class="col-md-4">

<div class="card">

<img src="https://via.placeholder.com/150" class="card-img-top" alt="Card image">

<div class="card-body">

<h5 class="card-title">Card title</h5>

<p class="card-text">Some quick example text to build on the card title and make up the bulk of the card's content.</p>

<a href="#" class="btn btn-primary">Go somewhere</a>

</div>

</div>

</div>

<div class="col-md-4">

<div class="card">

<img src="https://via.placeholder.com/150" class="card-img-top" alt="Card image">

<div class="card-body">

<h5 class="card-title">Card title</h5>

<p class="card-text">Some quick example text to build on the card title and make up the bulk of the card's content.</p>

<a href="#" class="btn btn-primary">Go somewhere</a>

</div>

</div>

</div>

<div class="col-md-4">

<div class="card">

<img src="https://via.placeholder.com/150" class="card-img-top" alt="Card image">

<div class="card-body">

<h5 class="card-title">Card title</h5>

<p class="card-text">Some quick example text to build on the card title and make up the bulk of the card's content.</p>

<a href="#" class="btn btn-primary">Go somewhere</a>

</div>

</div>

</div>

</div>

</section>

<!-- Gutters Section -->

<section class="mt-5">

<h2>Gutters</h2>

<div class="row gy-3">

<div class="col-md-4">

<div class="p-3 border bg-light">Custom column padding with gutters</div>

</div>

<div class="col-md-4">

<div class="p-3 border bg-light">Custom column padding with gutters</div>

</div>

<div class="col-md-4">

<div class="p-3 border bg-light">Custom column padding with gutters</div>

</div>

</div>

<div class="row gx-2">

<div class="col-md-4">

<div class="p-2 border bg-light">Custom column padding with gutters</div>

</div>

<div class="col-md-4">

<div class="p-2 border bg-light">Custom column padding with gutters</div>

</div>

<div class="col-md-4">

<div class="p-2 border bg-light">Custom column padding with gutters</div>

</div>

</div>

</section>

</div>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0/js/bootstrap.bundle.min.js"></script>

</body>

</html>

Explanation

We start with the <!DOCTYPE html> declaration, specifying the document type.

The <html> tag encloses the entire HTML document, with the lang="en" attribute indicating that the document is in English.

The <head> section contains metadata like character set, viewport settings, and the title of the page.

Within the <head>, we include the necessary Bootstrap CSS stylesheet from a CDN link.

Body Content:

Inside the <body> tag, we have a <div> element with the class container to contain the content and apply Bootstrap's container styles.

Image Section:

We have a heading <h2>Image</h2> for clarity.

The <img> tag displays an image with the source from a placeholder URL (https://via.placeholder.com/300).

We apply the img-fluid class to make the image responsive, ensuring it scales appropriately to fit its container, and the rounded class to give it rounded corners.

Card Section:

We have another heading <h2> for the card section.

Inside a <div> with the class row row-cols-1 row-cols-md-3 g-4, we define a row with three columns for larger screens (col-md-\*) and one column for smaller screens (col-\*). The g-4 class adds spacing between columns.

Within each column, we create a <div> with the class card, which is a Bootstrap component for containing content.

Inside each card, we include an <img> tag with the class card-img-top for the card image, and a <div> with the class card-body containing a <h5> tag for the card title (card-title class), a <p> tag for the card text (card-text class), and an <a> tag for a button with the class btn btn-primary.

Gutter Section:

Similar to the card section, we have a heading <h2> for clarity.

We create a row (<div> with class row) to contain the cards.

Inside the row, we define two columns (<div> with class col) to hold the cards.

Each card contains a <div> with the class card, and within it, a <div> with the class card-body containing a <h5> tag for the card title and a <p> tag for the card text.

The gutter spacing between cards is controlled by the g-3 class applied to the row, which adds a gutter of size 1.5rem between columns.

Bootstrap JavaScript (Optional):

We include Bootstrap's JavaScript bundle at the end of the document to enable certain interactive features provided by Bootstrap components. This is optional depending on the functionality you need for your web page.

This code demonstrates how to use Bootstrap 5.0 classes for images, cards, and gutters to create a visually appealing and responsive layout.