Batch:	B2	Roll No.:	16010121110

Experiment No. 03

TITLE: Demonstrate the use of Bootstrap

AIM: To use bootstrap (open source front-end development framework) for the creation of web pages.

Expected Outcome of Experiment: Re_design of web pages using various HTML, CSS tags with bootstrap.

Books/ Journals/ Websites referred:

http://getbootstrap.com/getting-started

Problem Statement:

1. **Students have to re-design web-pages developed in Experiment 1 and 2 by using bootstrap.**

2. **Create a webpage using bootstrap with following features,**

   i) use a container to set the content's margins dealing with the responsive behaviors of layout.
   ii) shape the image into a circle
   iii) use bootstrap grid system
   iv) create basic pagination
   v) insert search icon(glyphicon)

Description of the application implemented with output:

```
<html>
<head>
                                                              <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.
min.css"                                                rel="stylesheet"
```
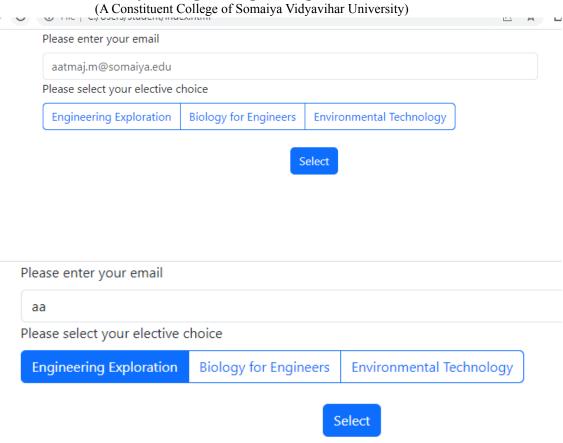
```
integrity="sha384-GLhlTQ8iRABdZLl6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA
6j6gD" crossorigin="anonymous">

                                                          <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bu
ndle.min.js"
integrity="sha384-w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF
7CXvN" crossorigin="anonymous"></script>
    <title>Form</title>
</head>
<body>
<div class="container">
    <div class="form-label">Please enter your email </div>
                        <input         type="email"        class="form-control"
placeholder="aatmaj.m@somaiya.edu">
</div>
<div class="container">
    <div class="form-label">Please select your elective choice</div>
    <div class="btn-group" >


            <input type="radio" class="btn-check"  name="btnradio" id="btn1" >
                <label  class="btn btn-outline-primary"  for="btn1">Engineering
Exploration</label>
            <input type="radio" class="btn-check"  name="btnradio" id="btn2" >
                <label  class="btn btn-outline-primary"  for="btn2">Biology for
Engineers</label>
            <input type="radio" class="btn-check"  name="btnradio" id="btn3" >
                <label  class="btn btn-outline-primary"  for="btn3">Environmental
Technology</label>


    </div>
</div>
<br>
<div class="container">
            <div       class="btn   btn-primary   position-relative   start-50
top-20">Select</div>
</div>
</body>
</html>
```

Please enter your email

aatmaj.m@somaiya.edu

Please select your elective choice

| Engineering Exploration | Biology for Engineers | Environmental Technology |

Select

Please enter your email

aa

Please select your elective choice

| **Engineering Exploration** | Biology for Engineers | Environmental Technology |

Select

Post Lab Questions:

1. What is the use of containers in bootstrap? Explain in detail.

Containers have the following uses

1) Structuring code into logical divisions
2) Structuring website into physical divisions
3) Limiting scope of an element per division.

2. Name the classes to achieve the different button styles in bootstrap.

```
btn-primary
btn-secondary
btn-success
btn-danger
btn-warning
btn-info
btn-light
btn-dark
btn-link
```

3. Write details about the Bootstrap Grid system.

- Containers provide a means to center and horizontally pad your site's contents. Use `.container` for a responsive pixel width or

`.container-fluid` for `width: 100%` across all viewport and device sizes.

- Rows are wrappers for columns. Each column has horizontal `padding` (called a gutter) for controlling the space between them. This `padding` is then counteracted on the rows with negative margins. This way, all the content in your columns is visually aligned down the left side.
- In a grid layout, content must be placed within columns and only columns may be immediate children of rows.
- Thanks to flexbox, grid columns without a specified `width` will automatically layout as equal width columns. For example, four instances of `.col-sm` will each automatically be 25% wide from the small breakpoint and up. See the auto-layout columns section for more examples.
- Column classes indicate the number of columns you'd like to use out of the possible 12 per row. So, if you want three equal-width columns across, you can use `.col-4`.
- Column `width`s are set in percentages, so they're always fluid and sized relative to their parent element.
- Columns have horizontal `padding` to create the gutters between individual columns, however, you can remove the `margin` from rows and `padding` from columns with `.no-gutters` on the `.row`.
- To make the grid responsive, there are five grid breakpoints, one for each responsive breakpoint: all breakpoints (extra small), small, medium, large, and extra large.
- Grid breakpoints are based on minimum width media queries, meaning they apply to that one breakpoint and all those above it (e.g., `.col-sm-4` applies to small, medium, large, and extra large devices, but not the first `xs` breakpoint).
- You can use predefined grid classes (like `.col-4`) or Sass mixins for more semantic markup.