Date: 25/11/2021   Roll No :32409

Experiment No: 5

Title: Design a WEB page

Objective:

1. The design a web page using Hypertext Markup Language [HTML] and Cascading Style Sheets [CSS]

Theory :

HTML and CSS are two of the core technologies for building Web pages. HTML provides the *structure* of the page, CSS the (visual and aural) *layout,* for a variety of devices. Along with graphics and scripting, HTML and CSS are the basis of building Web pages and Web Applications.

HTML is the language for describing the structure of Web pages. Using HTML web designer

- Publish online documents with headings, text, tables, lists, photos, etc.
- Retrieve online information via hypertext links, at the click of a button.
- Design forms for conducting transactions with remote services, for use in searching for information, making reservations, ordering products, etc.
- Include spread-sheets, video clips, sound clips, and other applications directly in their documents.

With HTML, web designer describe the structure of pages using *markup.* The *elements* of the language label pieces of content such as "paragraph," "list," "table," and so on.

CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language. The separation of HTML from CSS makes it easier to maintain sites, share style sheets across pages, and tailor pages to different environments. This is referred to as the *separation of structure (or: content) from presentation.*

Design:

```
<!—index.html code started here -->
```
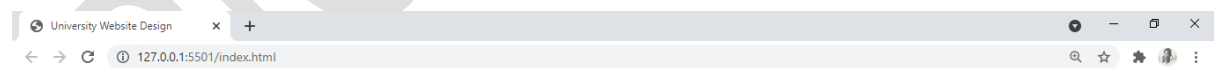
1.Boiler Template

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
</html>
```

2.Added title in head

```html
    <!-- title starts here  -->
    <title>University Website Design</title>
    <!-- title ends here  -->
```

1 and 2 Output – Created a website by name University Website Design

3.Creating CSS file by name style

```css
*{
    margin: 0;
    padding: 0;
}
```

and it Adding in html head.

```html
<!-- CSS starts here  -->
<link rel="stylesheet" href="style.css">
<!-- CSS starts here  -->
```

Section 1-

4.Creating Homepage by adding actual content in Body of html

<>html

```html
<body>
    <section class="header">

        <!-- navigation bar starts here -->
        <nav>

            <!-- Image attachment starts here -->
            <a href="index.html"><img src="images/logo.png" alt=""></a>
            <!-- Image attachment ends here -->

            <div class="nav-links" id="navLinks">

                <!—List starts here -->
                <ul>
                    <li><a href="">HOME</a></li>
                    <li><a href="">ABOUT</a></li>
                    <li><a href="">COURSE</a></li>
                    <li><a href="">BLOG</a></li>
                    <li><a href="">CONTACT</a></li>
                </ul>
                <!—List ends here -->

            </div>
        </nav>
```

```html
        <!-- navigation bar ends here -->

    <div class="text-box">

        <!-- heading starts here -->
        <h1>World's Biggest University</h1>
        <!-- heading ends here -->

        <!-- paragraph starts here -->
        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Hic
placeat veritatis ut eum consequatur,

        <!—Line break starts here -->
        <br>
        <!—Line break starts here -->

            necessitatibus harum dicta ab incidunt doloribus.</p>
        <!-- paragraph starts here -->

        <!-- button starts here -->
        <a href="" class="hero-btn">Visit Us To Knoe More</a>
        <!-- button ends here -->

    </div>
  </section>

</body>
```
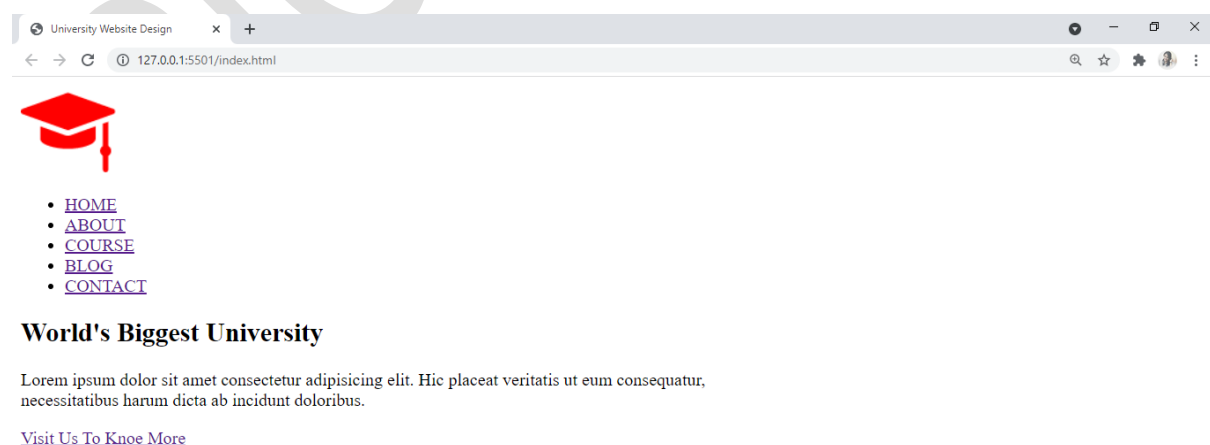
4.output

5.Adding background Image & other styling in CSS for homepage

#css

```css
.header{
    min-height: 100vh;
    width: 100%;

    background-image: linear-gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),
url(images/banner.png);
    background-position: center;
    background-size: cover;
    position: relative;
}
nav{
    display: flex;
    padding: 2% 6%;
    justify-content: space-between;
    align-items: center;


}
nav img {
    width: 150px;
}
.nav-links{
    flex: 1;
    text-align: right;
}
.nav-links ul li{
    list-style: none;
    display: inline-block;
    padding: 8px 12px;
    position: relative;
}
.nav-links ul li a{
    color: white;
    text-decoration: none;
    font-size: 13px;
}
.nav-links ul li::after{
    content: '';
    width: 0%;
    height: 2px;
```
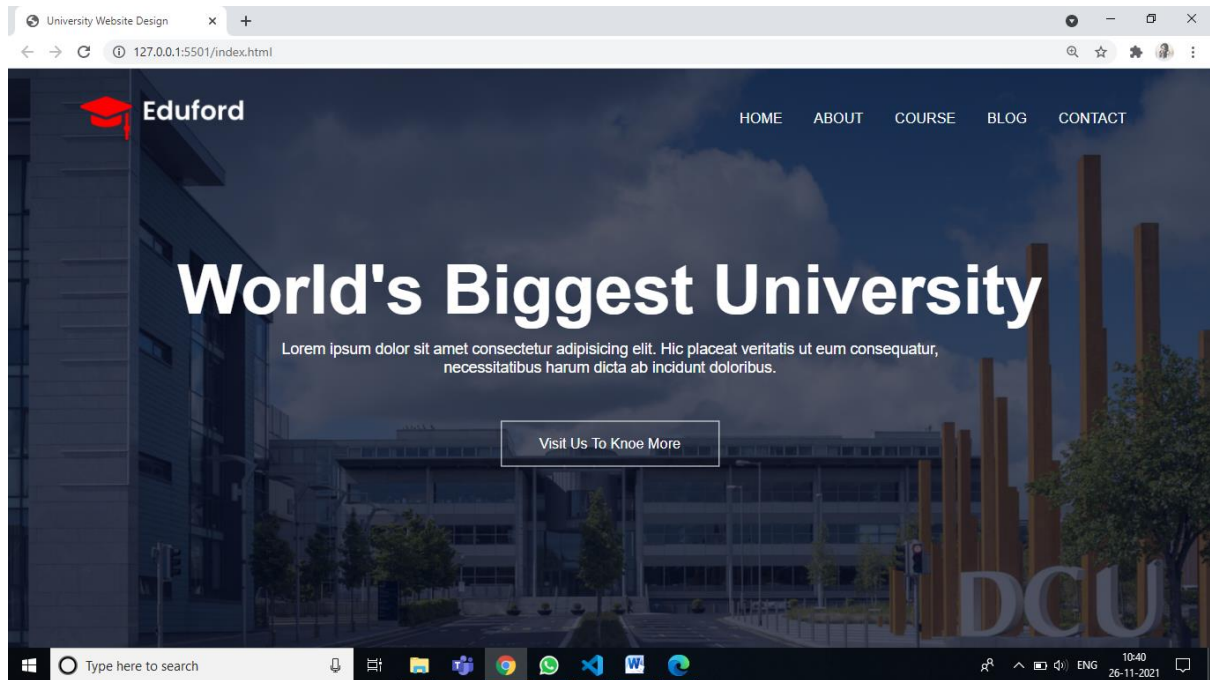
```css
        background: #f44336;
        display: block;
        margin: auto;
        transition: 0.5s;
}
.nav-links ul li:hover::after{
        width: 100%;
}
.text-box{
        width: 90%;
        color: #fff;
        position: absolute;
        top: 50%;
        left: 50%;
        transform: translate(-50%,-50%);
        text-align: center;
}
.text-box h1{
        font-size: 62px;
}
.text-box p{
        margin: 10px 0 40px;
        font-size: 14px;
        color: #fff;
}
.hero-btn{
        display: inline-block;
        text-decoration: none;
        color: #fff;
        border: 1px solid #fff;
        padding: 12px 34px;
        font-size: 13px;
        background: transparent;
        position: relative;
        cursor: pointer;
}
.hero-btn:hover{
        border: 1px solid #f44336;
        background: #f44336;
        transition: 1s;
}
nav .fa{
        display: none;
}
```
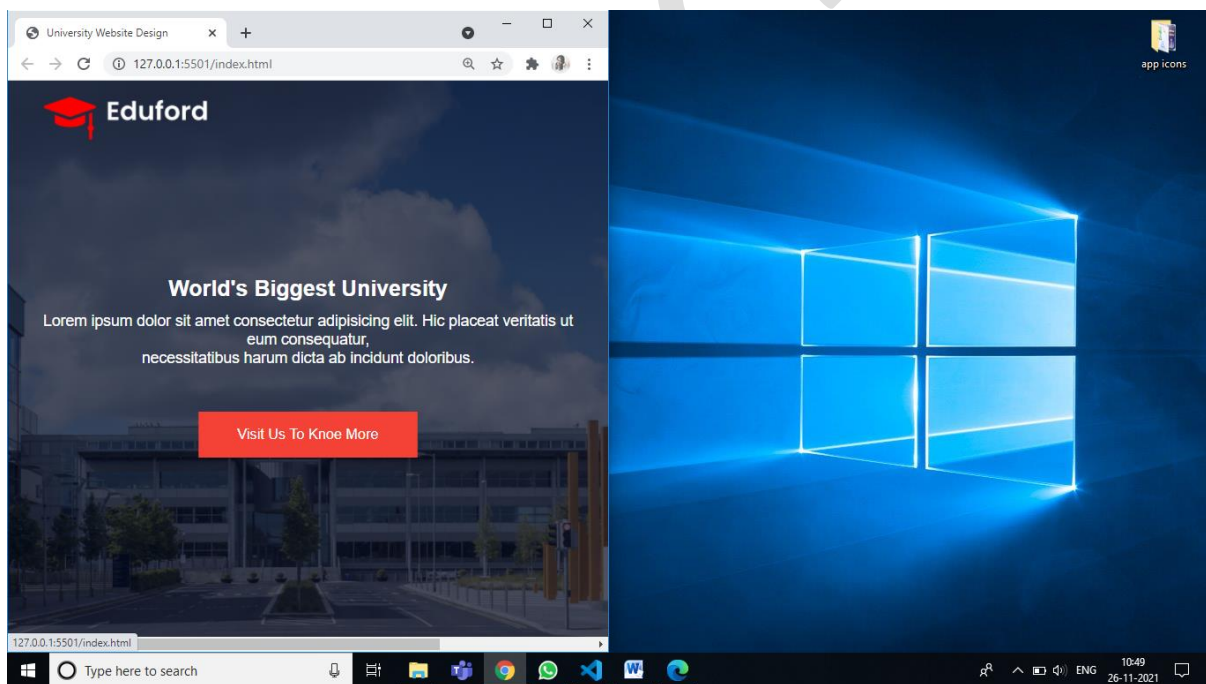
5.Output

6. To make it look good in small devices also added media query in css which will make it responsive

#css

```css
@media(max-width: 700px){
    .text-box h1{
        font-size: 20px;
    }
    .nav-links ul li{
        display: block;
    }
    .nav-links{
        position: absolute;
        background: #f44336;
        height: 100vh;
        width: 200px;
        top: 0;
        right: -200px;
        text-align: left;
        z-index: 2;
```

```css
        transition: 1s;
    }
nav .fa{
        display: block;
        color: #fff;
        margin: 10px;
        font-size: 22px;
        cursor: pointer;
    }
.nav-links ul{
        padding: 30px;
    }
}
```

6. Output

7.added google fonts in html head

<>html

```html
<!--Google font link attachment starts here  -->
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
```

```
    <link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;60
0;700&display=swap"
        rel="stylesheet">
```

and Added font family in css at the top that could applied for all

#css

```css
*{
    margin: 0;
    padding: 0;
    font-family: 'Poppins', sans-serif;
}
```
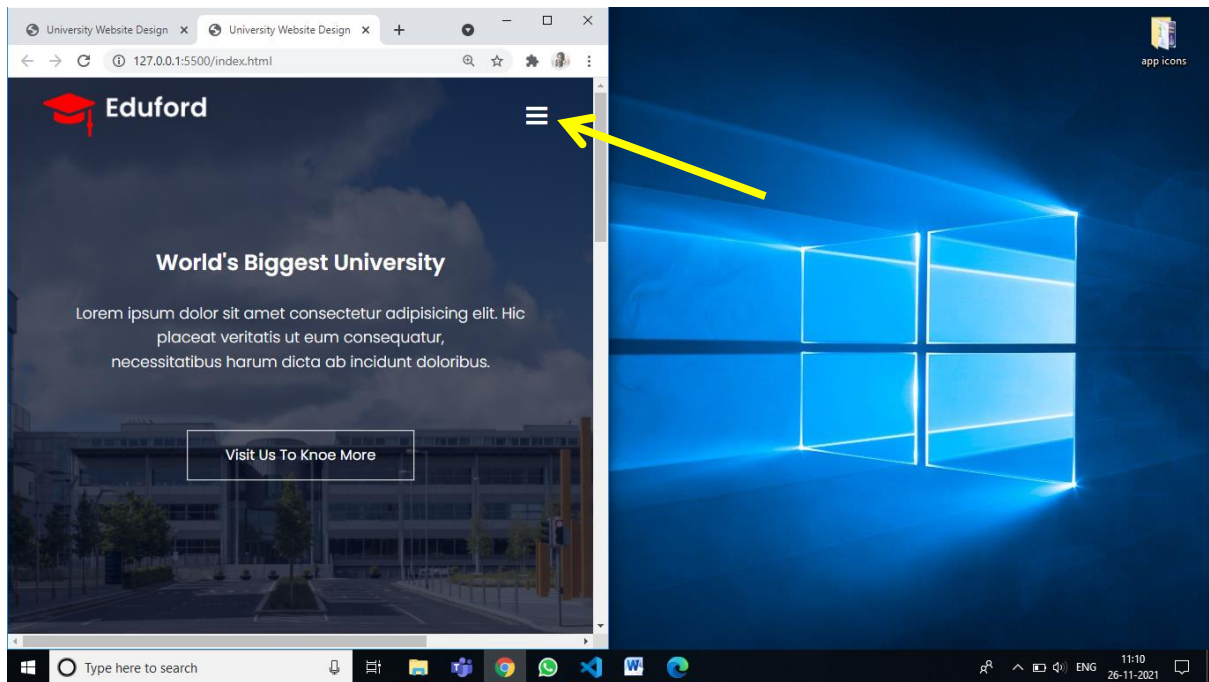
8. navlinks for small devices

<>html
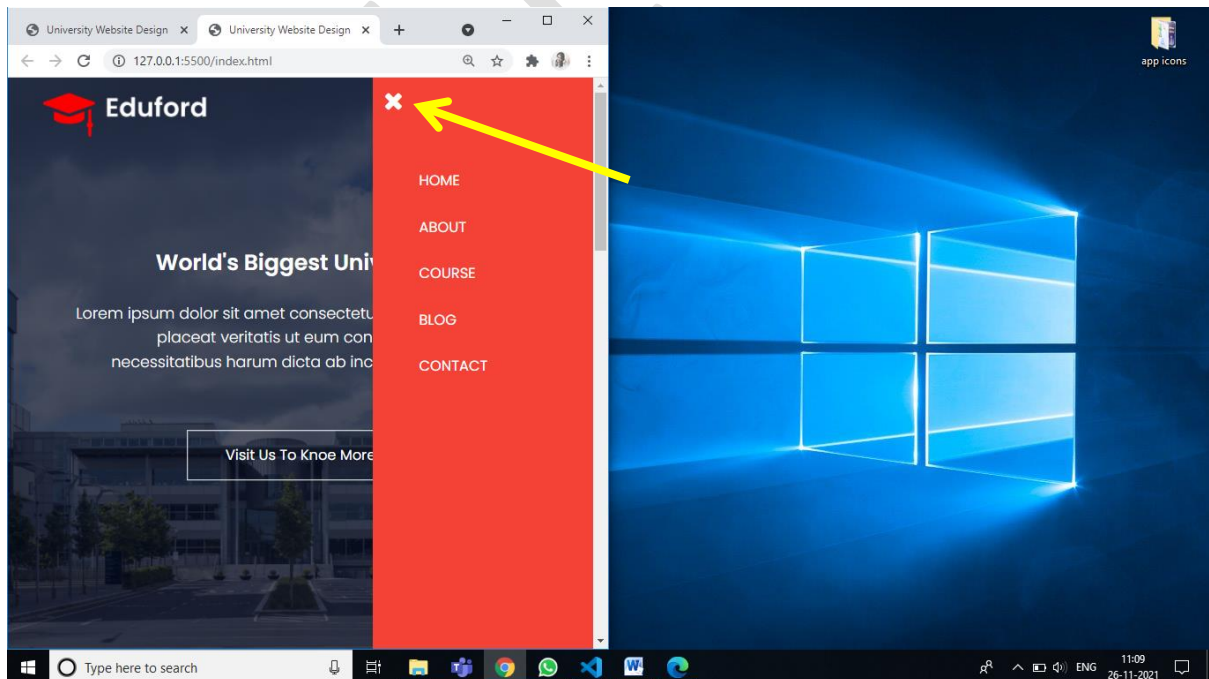
a)added bootstrap for icons in head of html

```html
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-
awesome/4.7.0/css/font-awesome.min.css">
```

b) added menu bar & close icon in body of html with clickon function

```html
<i class="fa fa-times" onclick="hideMenu()"></i>
```

```
<i class="fa fa-bars" onclick="showMenu()"></i>
```


c)small javascript for click on function

JS javascript

```
<!-- javascript for toggle menu -->
<script>
    var navLinks = document.getElementById("navLinks");

    function showMenu() {
        navLinks.style.right = "0";
    }
    function hideMenu() {
        navLinks.style.right = "-200px";
    }
</script>
```

Section 2 Course –

9.Tables added

<>html

```
<!-- course -->
<section class="course">
    <h1>Course We Offer</h1>
    <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Accusamus,
cumque.</p>

    <div class="row">
      <div class="course-col">
          <h3>Intermediate</h3>
          <p>Lorem, ipsum dolor sit amet consectetur adipisicing elit.
Consequuntur cum voluptatum, porro accusantium alias fugiat.</p>
      </div>
      <div class="course-col">
        <h3>Degree</h3>
        <p>Lorem, ipsum dolor sit amet consectetur adipisicing elit.
Consequuntur cum voluptatum, porro accusantium alias fugiat.</p>
      </div>
      <div class="course-col">
          <h3>Post Graduation</h3>
          <p>Lorem, ipsum dolor sit amet consectetur adipisicing elit.
Consequuntur cum voluptatum, porro accusantium alias fugiat.</p>
      </div>
```
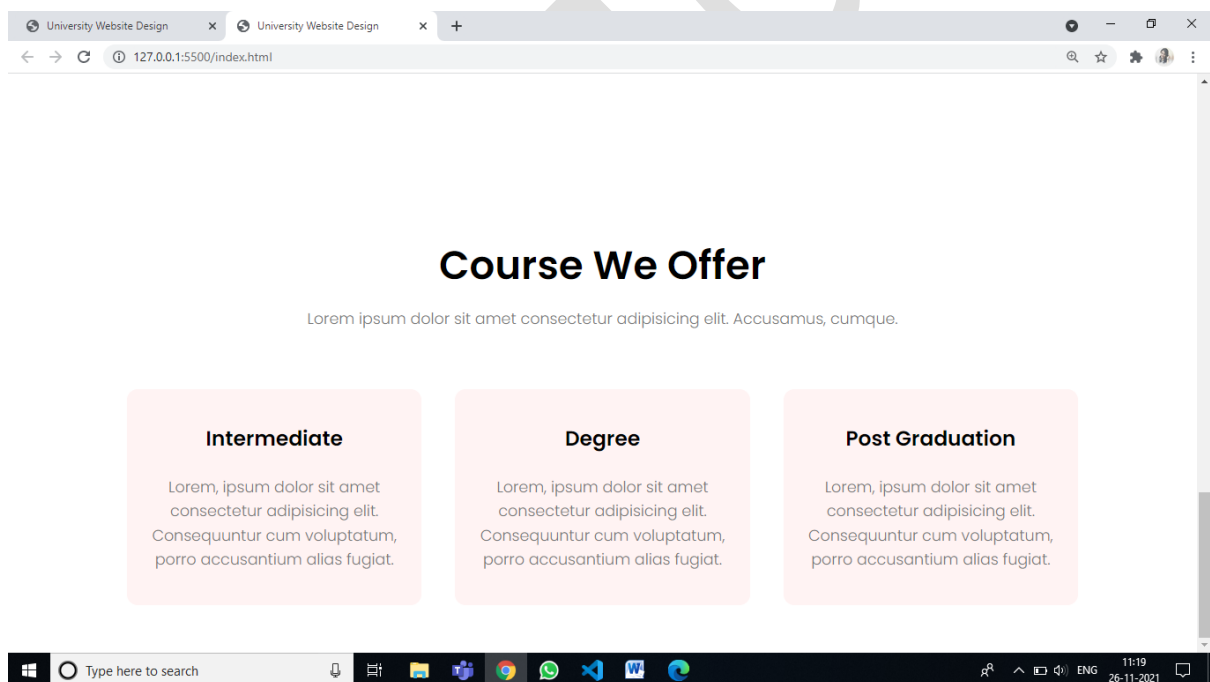
```
        </div>

    </section>
```

#css

```css
/* course */

.course{
    width: 80%;
    margin: auto;
    text-align: center;
    padding-top: 100%;
}
h1{
    font-size: 36px;
    font-weight: 600;
}
p{

    color: #777;
    font-size: 14px;
    font-weight: 300;
    line-height: 22px;
    padding: 10px;
}
.row{
    margin-top: 5%;
    display: flex;
    justify-content: space-between;
}
.course-col{
    flex-basis: 31%;
    background: #fff3f3;
    border-radius:10px ;
    margin-bottom: 5%;
    padding: 20px 12px;
    box-sizing: border-box;
    transition: 0.5s;

}
h3{
    text-align: center;
```
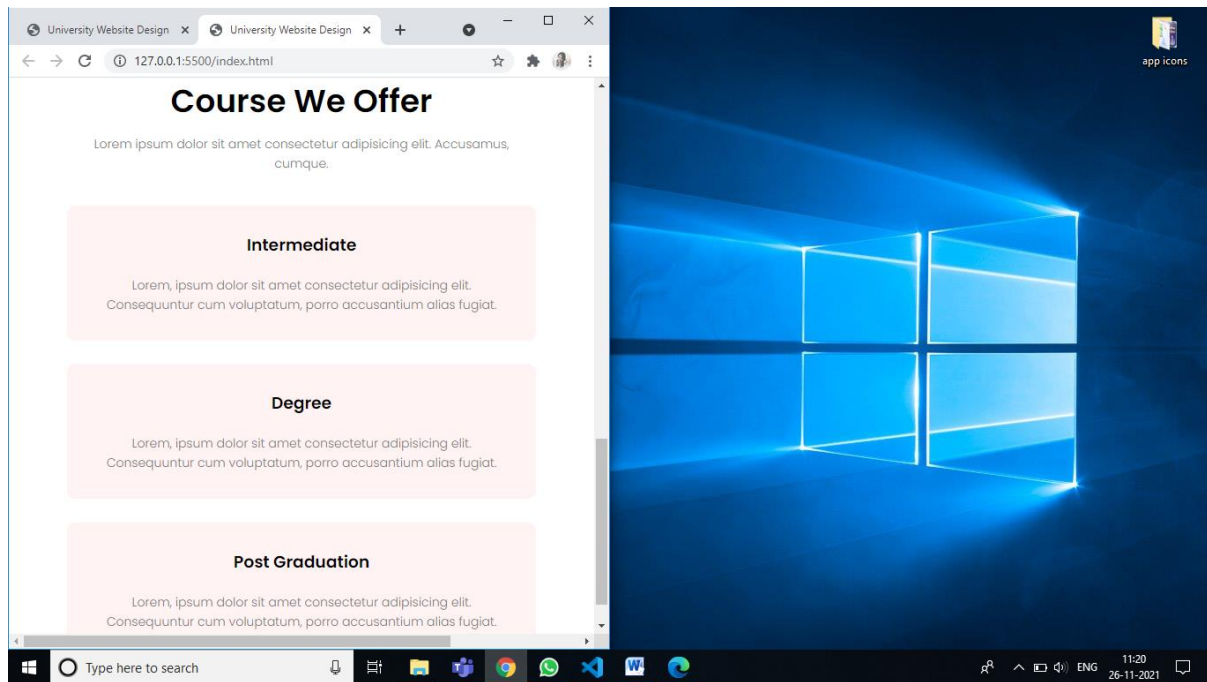
```css
    font-weight: 600;
    margin: 10px 0;
}
.course-col:hover{
    box-shadow: 0 0 20px 0px rgba(0,0,0,0.2);


}
@media(max-width: 700px){
    .row{
        flex-direction: column;
    }
}
```

9.Output

For small devices

10. Section 3 Campus-

<>html
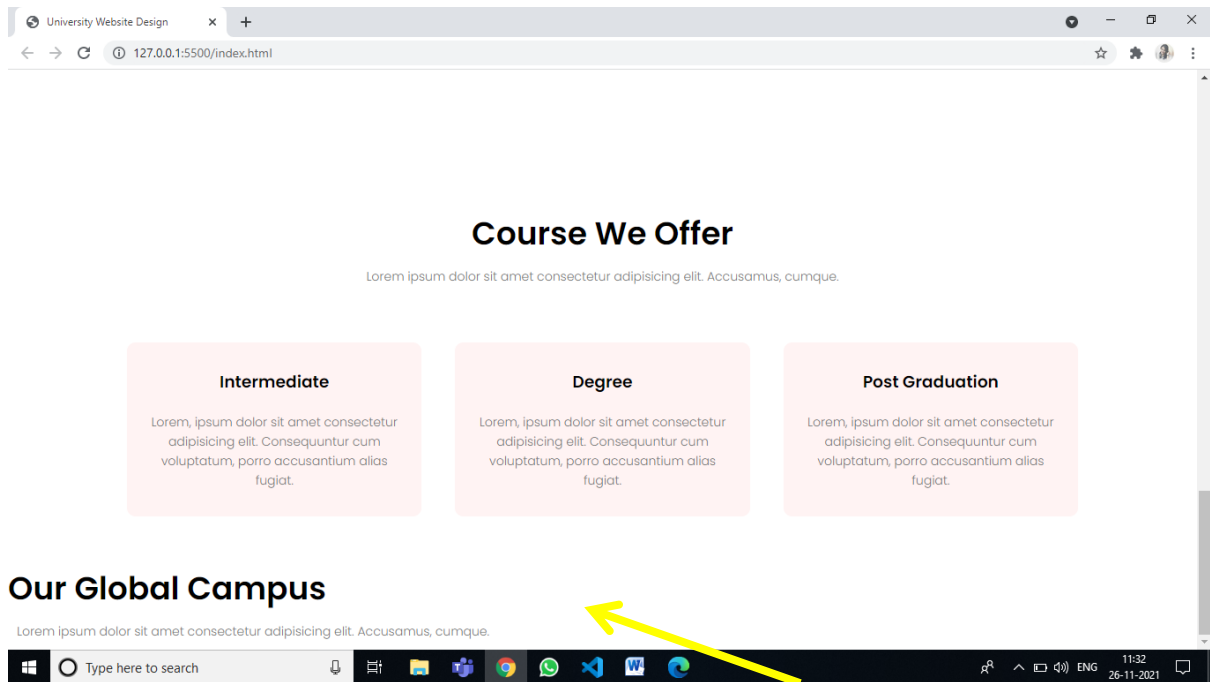
```html
<!-- campus -->
<section class="campus">
    <h1>Our Global Campus</h1>
    <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Accusamus,
cumque.</p>
</section>
```
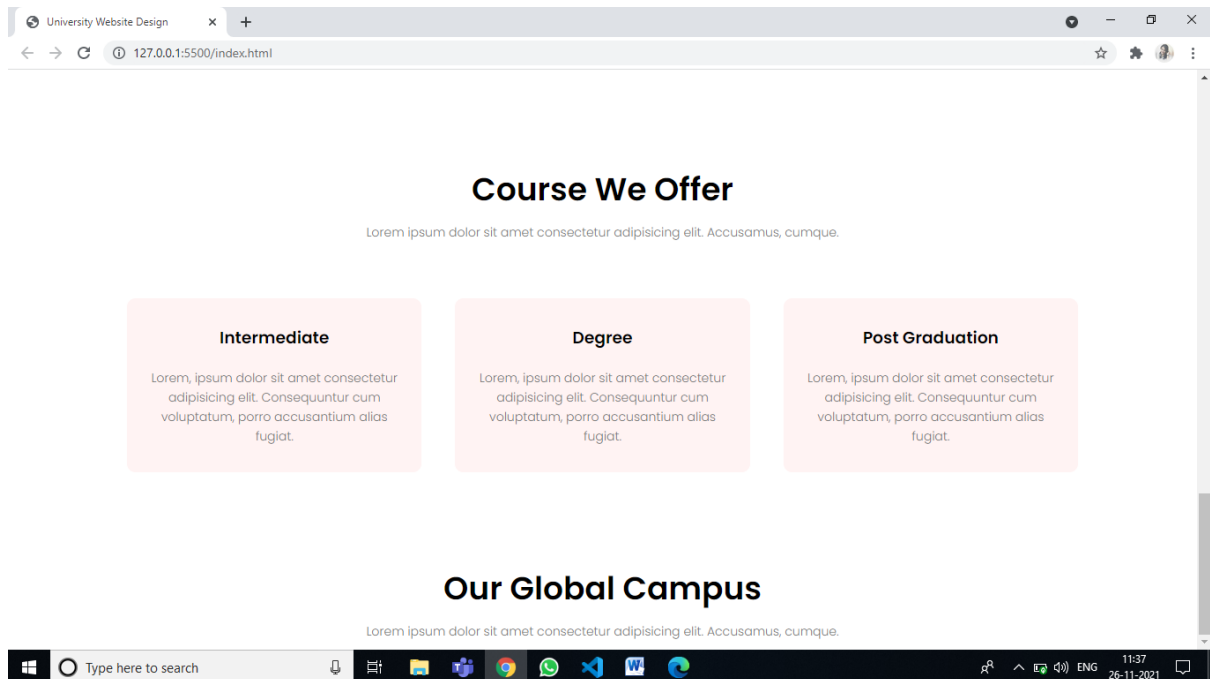
output

#css

```
/* campus */
.campus {

    width: 80%;
    margin: auto;
    text-align: center;
    padding-top: 50px;
}
```

output

<>html

```html
<!-- campus -->
<section class="campus">
    <div class="row">
        <div class="campus-col">
            <img src="images/london.png" alt="">
            <div class="layer">
                <h3>LONDON</h3>
            </div>
        </div>
        <div class="campus-col">
            <img src="images/newyork.png" alt="">
            <div class="layer">
                <h3>NEW YORK</h3>
            </div>
        </div>
        <div class="campus-col">
            <img src="images/washington.png" alt="">
            <div class="layer">
                <h3>WASHINGTON</h3>
            </div>
        </div>
    </div>
</section>
```
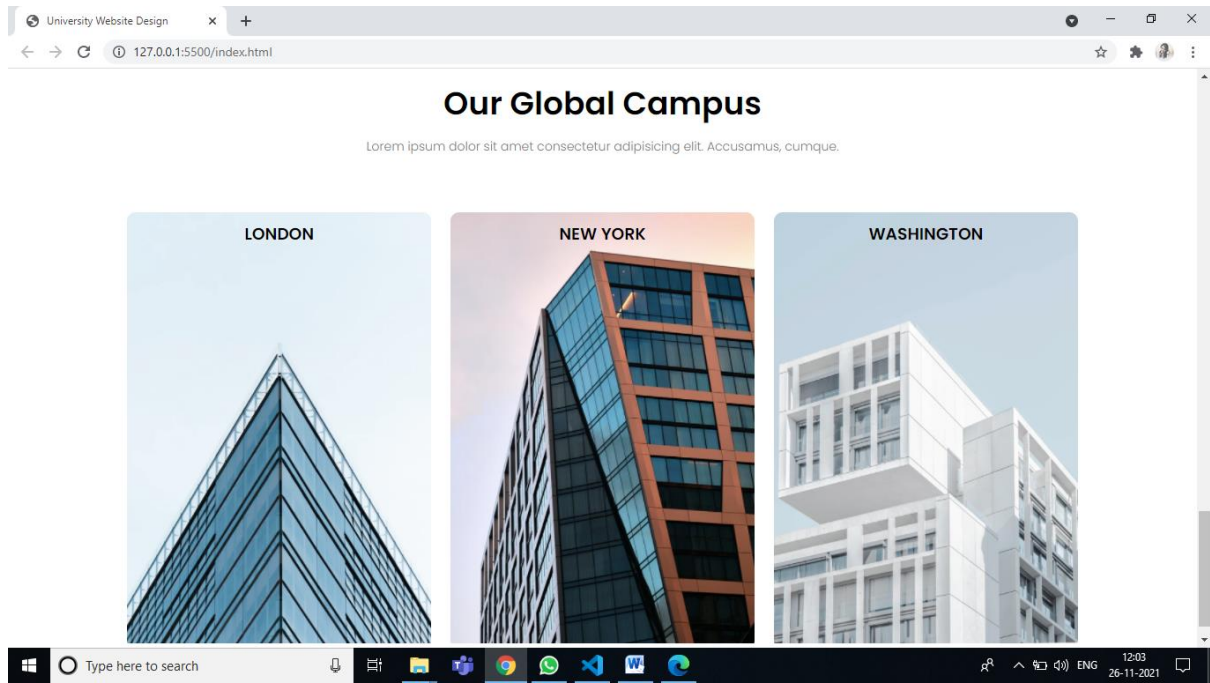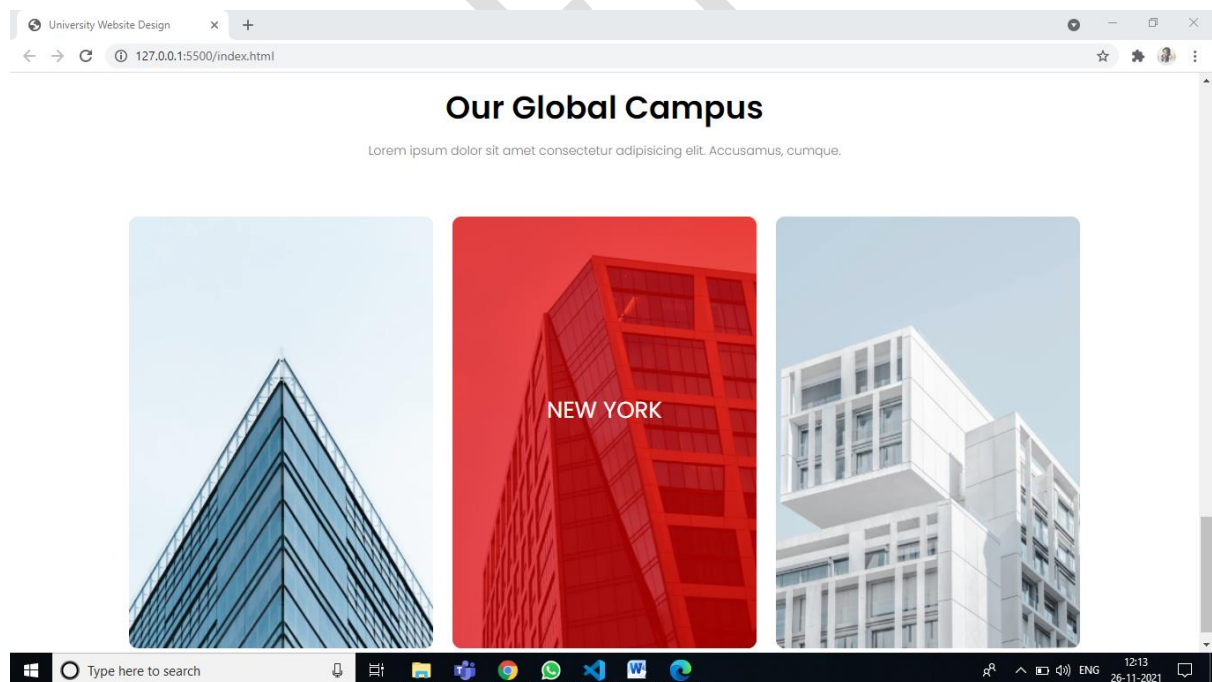
output

#css

```css
.campus-col{
    flex-basis: 32%;
    border-radius: 10px;
    margin-bottom: 30px;
    position: relative;
    overflow: hidden;
}
.campus-col img{
    width: 100%;
    display: block;
}
.layer{
    background: transparent;
    height: 100%;
    width: 100%;
    position: absolute;
    top: 0;
    left: 0;
    transition: 0.5s;
}
.layer:hover{
```

```css
        background: rgba(226,0,0,0.7);
}
.layer h3{
    width: 100%;
    font-weight: 500;
    color: #fff;
    font-size: 26px;
    bottom: 0;
    left: 50%;
    transform: translateX(-50%);
    position: absolute;
    opacity: 0;
    transition: 0.5s;
}

.layer:hover h3{
    bottom: 49%;
    opacity: 1;
}
```

output

11. <mark>**Section 4 Facilities-**</mark>

<>html

```html
<!-- facilities -->
<section class="facilities">
    <h1>Our Facilities</h1>
    <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Accusamus,
cumque.</p>

    <div class="row">
        <div class="facilities-col">
            <img src="images/library.png" alt="">
            <h3>World Class Library</h3>
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Accusamus, cumque.</p>
        </div>
        <div class="facilities-col">
            <img src="images/basketball.png" alt="">
            <h3>Largest Playground</h3>
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Accusamus, cumque.</p>
        </div>
        <div class="facilities-col">
            <img src="images/cafeteria.png" alt="">
            <h3>Tasty & Healthy Food</h3>
            <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Accusamus, cumque.</p>
        </div>
    </div>
</section>
```
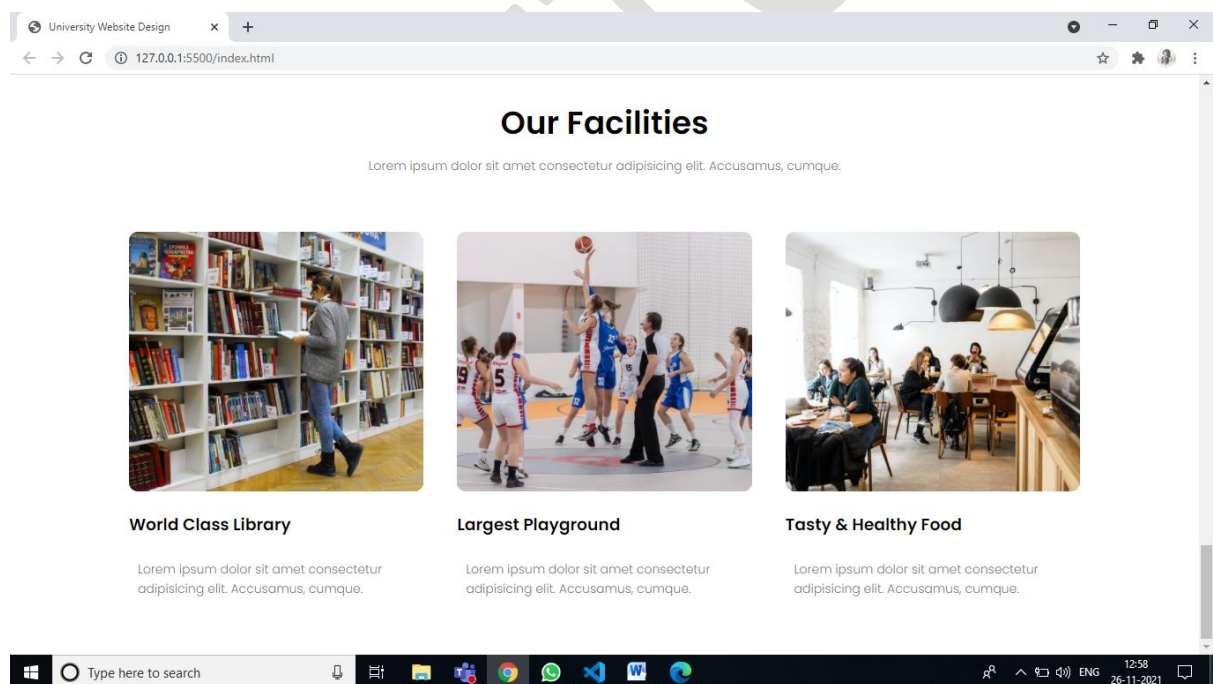
#css

```css
/* Facilities */
.facilities{
    width: 80%;
    margin: auto;
    text-align: center;
    padding-top: 100px;
}
.facilities-col{
    flex-basis: 31%;
    border-radius: 10px;
```

```css
    margin-bottom: 5%;
    text-align: left;
}
.facilities-col img{
    width: 100%;
    border-radius: 10px;
}
facilities-col p{
    padding: 0;
}


.facilities-col h3{
    margin-top: 16px;
    margin-bottom: 15px;
    text-align: left;
}
}
```

output

12.Section 5 testinomials –

<>html

```html
<!-- testimonials -->

<section class="testimonials">
    <h1>What Our Student Says</h1>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
    <div class="row">
        <div class="testimonial-col">
            <img src="images/user1.jpg">

            <div>
                <p>Lorem ipsum dolor sit amet, consectetur adipiscing
elit. Pellentesque aliquet turpis nulla,
                    eleifend faucibus est sollicitudin ut. Maecenas ut
venenatis ex, et dapibus purus.</p>
                <h3>Christine Berley</h3>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star-o"></i>
            </div>
        </div>
        <div class="testimonial-col">
            <img src="images/user2.jpg">

            <div>
                <p>Lorem ipsum dolor sit amet, consectetur adipiscing
elit. Pellentesque aliquet turpis nulla,
                    eleifend faucibus est sollicitudin ut. Maecenas ut
venenatis ex, et dapibus purus.</p>
                <h3>David Barkey</h3>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star"></i>
                <i class="fa fa-star-half--o"></i>
            </div>
        </div>
    </div>
```

#css

```css
/* testimonials ------*/
.testimonials {
    width: 80%;
    margin: auto;
    padding-top: 100px;
    text-align: center;
}
.testimonial-col{
    flex-basis: 44%;
    border-radius: 10px;
    margin-bottom: 5%;
    text-align: left;
    background: #fff3f3;
    padding: 25px;
    cursor: pointer;
    display: flex;
}

.testimonial-col img{
    height: 40px;
    margin-left: 5px;
    margin-right: 30px;
    border-radius: 50%;

}
.testimonial-col p{
    padding: 0;
}
.testimonial-col h3{
    margin-top: 15px;
    text-align: left;
}
.testimonial-col .fa{
    color: #f44336;
}
@media(max-width: 700px){
    .testimonial-col img{

        margin-left: 0px;
        margin-right: 15px;

    }
}
```
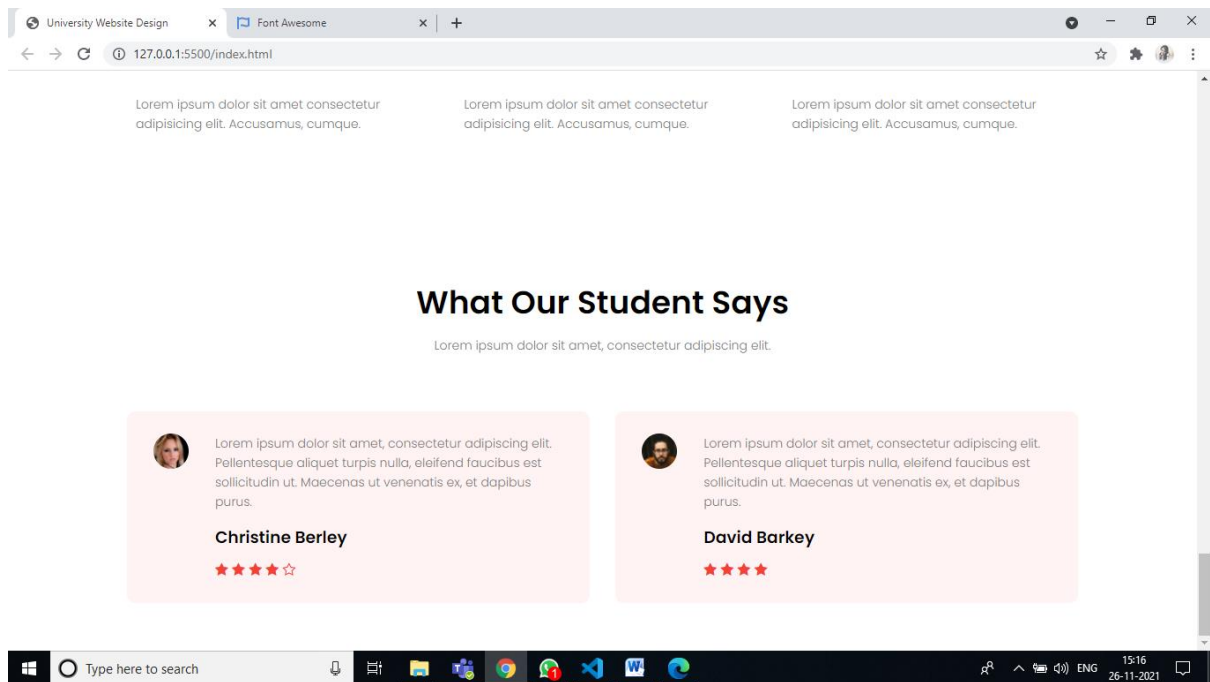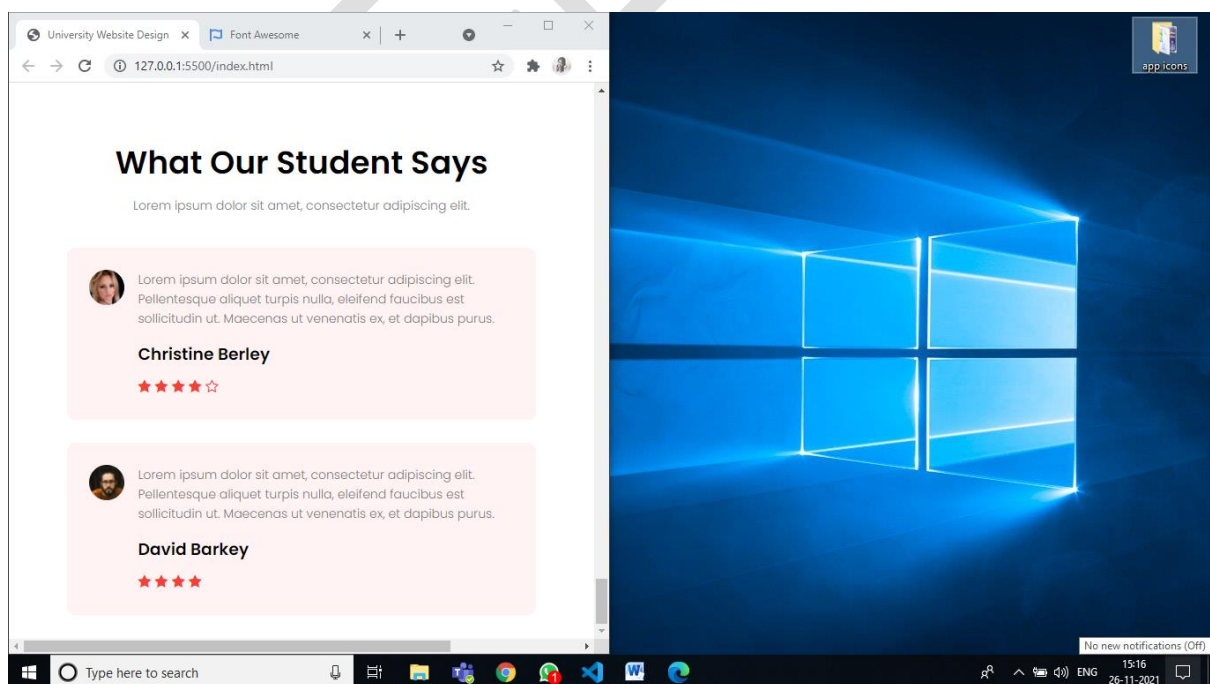
output

For small devices

13.**Section 6 Contact –**

<>html

```html
<!-- call to action -->
<section class="cta">

    <h1>Enroll For Our Various Online Courses<br>Anywhere From The
World</h1>
    <a href="" class="hero-btn">CONTACT US</a>
</section>
```

#css

```css
/* call to action */

.cta{

    margin: 100px auto;
    width: 80%;
    background-image: linear-gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),
url(images/banner2.jpg);
    background-position: center;
    background-size: cover;
    border-radius: 10px;
    text-align: center;
    padding: 100px 0;
}

.cta h1{
    color: #fff;
    margin-bottom: 40px;
    padding: 0; }


}
@media(max-width: 700px){
    .cta h1{
        font-size: 24px;
    }
}
```
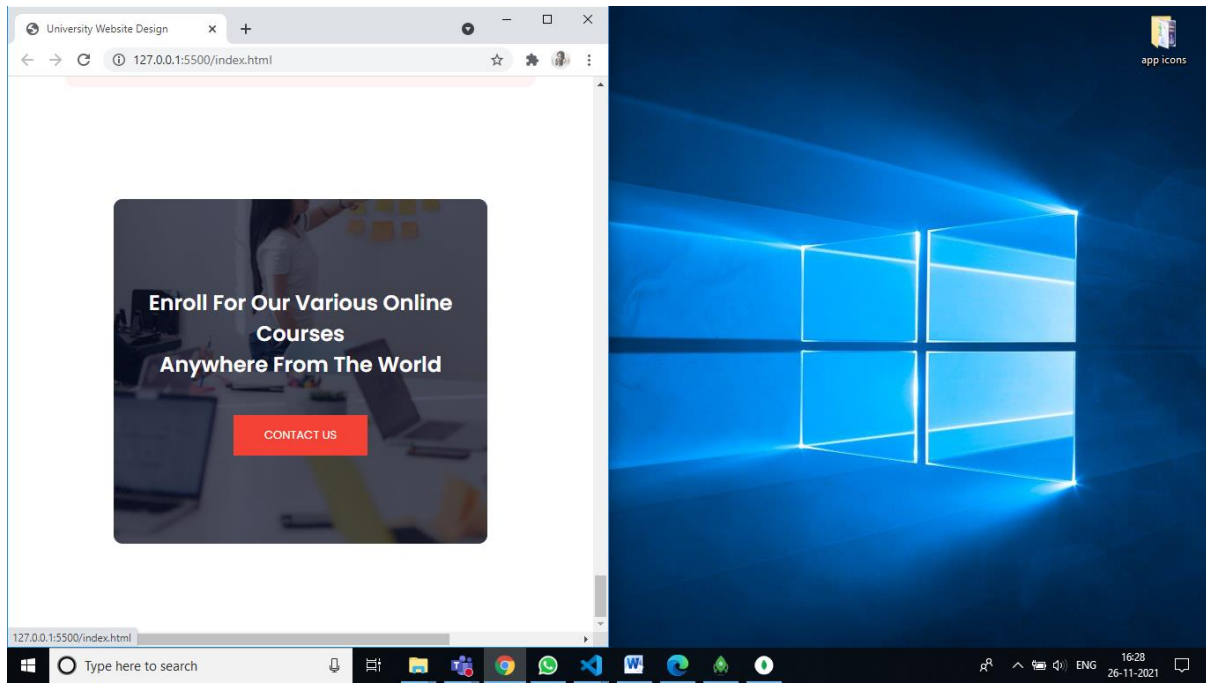
output

13.**Section 7 About us –**

<>html

```html
<!-- footer -->
<section class="footer">
    <h4>About Us</h4>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Pellentesque aliquet turpis nulla, eleifend
        faucibus est sollicitudin ut. Maecenas ut venenatis ex, et
dapibus purus.</p>
    <div class="icons">
        <i_ class="fa fa-facebook"></i>
        <i class="fa fa-twitter"></i>
        <i class="fa fa-instagram"></i>
        <i class="fa fa-linkedin"></i>
    </div>
    <p>Made with <i class="fa fa-heart-o"></i> by Anisha R B
(32409)</p>

</section>
```

#css

```css
/* footer  */

.footer {
    width: 100%;
    text-align: center;
    padding: 30px 0;
}

.footer h4{
    margin-bottom: 25px;
    margin-top: 20px;
    font-weight: 600;
}

.footer .fa{
    color: #f44336;
    margin: 0 13px;
    cursor: pointer;
    padding: 18px 0;
}
.fa fa-heart-o{
    color: #f44336;
}
```
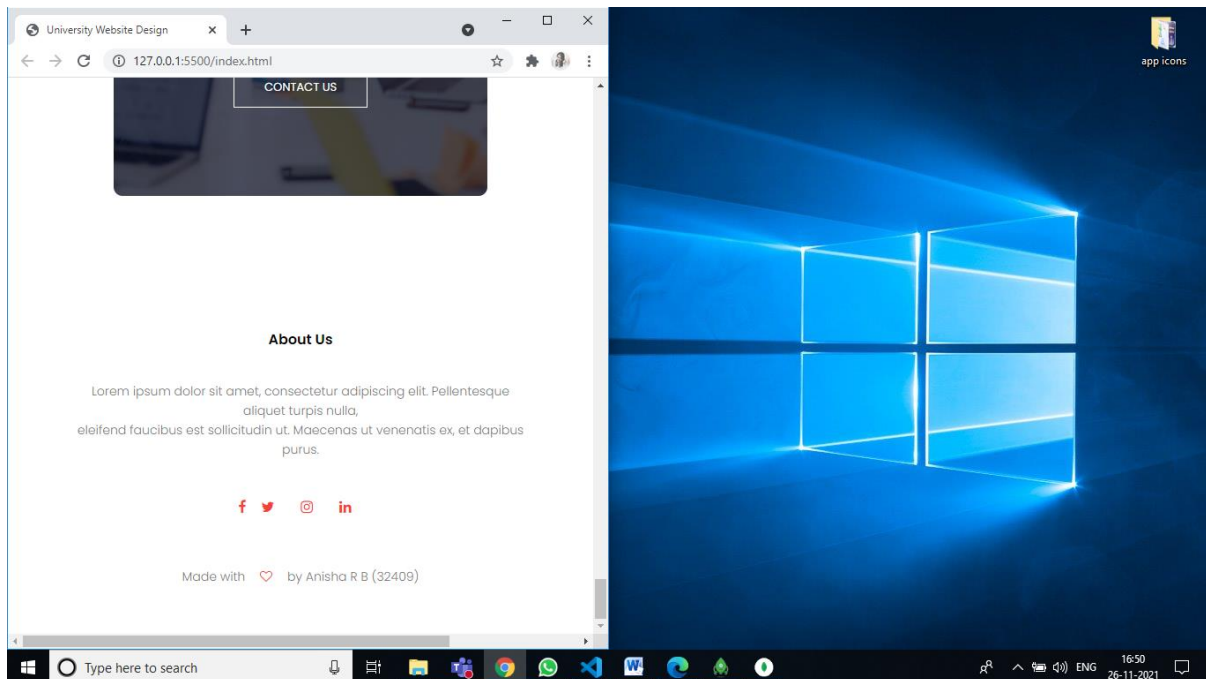
output

Conclusion :

Successfully created a responsive webpage using html & css.

1.Learnt to attach images , links , online google fonts and icons.

2. Formed Table by creating rows & columns , used hover effect to highlight cursor pointer.

3. Tried button using small javascript click on function.

4. Got to know various css properties like how to use flex, align text and content box , colors –background images , border properties etc.

5. Also used media query for responsiveness.