

ARYA COLLEGE OF ENGINEERING & I.T.

Student Name	AMAN SINGHAL	RTU ROLL No.	18EARCS011
Branch & Section	COMPUTER SCIENCE, CS-A	Mobile No.	7771070090
Training Name	FULL STACK DEVELOPMENT	Training Provider	Mr. SANJAY RATHORE
Summer Training Progress Report			
Week – 1	11/05/2020 to 16/05/20	Attendance:	100%
Topic Covered:	HTML Overview, CSS Introduction, Ways of CSS, Types of Selectors, Types of element, Box Model, Margin & Padding, Positioning, Flexbox, Properties of Flex, 2-D Grid Layout, Naming Convention in Grid, Transform, 3-D Grid Layout, Transform, Animations, Media Queries, Navigation Menu, Bootstrap Overview.		
Assignment Completed:	Yes	No. of Assignments Attached:	07
Week – 2	18/05/2020 to 23/05/20	Attendance:	100%
Topic Covered:	Form, Javascript Introduction, JS Variables, JS datatypes, JS operators, Fall Through or Fall Down, JS Conditions, Switch, Loop For, Loop While, Patterns using JS functions, JS Objects, JS Events, JS Strings, JS Numbers, JS Dates, JS Arrays, Authentication, Autherization, Validation, Regular Expressions, Url and Path, Form Action, Submit.		
Assignment Completed:	Yes	No. of Assignments Attached:	06
Week – 3	25/05/2020 to 30/05/20	Attendance:	100%
Topic Covered:	Callback, Sorting, Iteration Methods, JQuery Introduction, JQuery Functions, JQuery Event, JQuery Effect, JQuery Fade, JQuery Slide, Animate, Stop(), JQuery Callback, Get Content, Set Content, JQuery Add, Multiple element Append, after() & before(), remove() & empty(), JQuery Manipulating CSS, JQuery CSS, JQuery Dimensions, JQuery Traversing, JQuery AJAX, Load Data from Server, JSON Object, Node Installation & Introduction, Variable Hosting, Constructor, Prototype Introduction, Prototype Inheritance, Arrow Function, SetTimeout, SetInterval, Event loop, Event Queue, Asynchronous Thread, in & of Operator, rest & spread operator, Dynamic key value, Context Binding, Closure, Callback, Promise.		
Assignment Completed:	Yes	No. of Assignments Attached:	02
Week – 4	01/05/2020 to 06/05/20	Attendance:	100%
Topic Covered:	I node-fetch library installation, async Await, i rxjs library installation, Destructing, OOPs Introduction, Class, Object, Inheritance, Abstraction, Encapsulation, Polymorphism, Message Passing, Typescript Introduction, TS Datatypes, TS Extends, Constructor, Function Overriding, Abstraction, Access Modifier, Constructor with Inheritance, auto Property Generation, Optional Parameters, Interface, Export Module, Import Module.		
Assignment Completed:	Yes	No. of Assignments Attached:	01

ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Headphone website</title>
```

```
  <style>
```

```
    .header{
```

```
      height: 1000px;
```

```
      width: 100%;
```

```
      background-image: url("background.jpg");
```

```
      background-repeat: no-repeat;
```

```
      background-size: cover;
```

```
    }
```

```
    #heading-button{
```

```
      height: 50px;
```

```
      width: 150px;
```

```
      background-color: white;
```

```
      border-radius: 30px;
```

```
      border: none;
```

```
    }
```

```
    .text{
```

```
      padding: 200px;
```

```
    }
```

```
    .intro{
```

```
padding: 80px;
padding-bottom: 50px;
text-align: justify;
}
```

```
.heading1{
  background-color: rgb(243, 181, 23);
  width: 100%;
  height: 80px;
}
```

```
.heading1 h2{
  padding-top: 30px;
  color: white;
  text-align: center;
}
```

```
.heading{
  padding-left: 80px;
}
```

```
.details{
  display: flex;
  padding-left: 50px;
  padding-right: 50px;
  justify-content: space-evenly;
}
```

```
.image{
  position: relative;
}
```

```
.image-button{  
    position: absolute;  
    left: 10px;  
    top: 10%;  
    height: 40px;  
    width: 130px;  
    background-color: rgb(243, 181, 23);  
    border-radius: 30px;  
    border: none;  
}
```

```
.inner-details{  
    padding-left: 10px;  
    padding-right: 10px;  
}
```

```
.inner-details img{  
    height: 250px;  
    width: 450px;  
}
```

```
.image-text{  
    background-color: rgb(243, 181, 23);  
    height: 150px;  
}
```

```
.inner-text{  
    color: white;  
}
```

```
.inner-heading{  
    padding-left: 10px;  
    padding-top: 10px;  
}
```

```
.heading-above-pic{  
    padding-left: 80px;  
}
```

```
.pictures{  
    padding-left: 10px;  
    padding-right: 10px;  
    display: flex;  
    justify-content: space-evenly;  
}
```

```
.pictures img{  
    width: 300px;  
}
```

```
.heading2{  
    background-color: rgb(243, 181, 23);  
    width: 100%;  
    height: 120px;  
    position: relative;  
}
```

```
.heading2 h2,.heading2 h4{  
    padding-top: 15px;  
    color: white;  
    text-align: center;  
}
```

```

.heading2-button{
    position: absolute;
    right: 20%;
    top: 30%;
    height: 50px;
    width: 150px;
    background-color: white;
    border-radius: 30px;
    border: none;
}

.footer h2{
    text-align: center;
}

.inner-footer{
    display: flex;
    justify-content: space-evenly;
}

span{
    background-color: grey;
    padding: 5px;
}

</style>
</head>
<body>
<div class="header">
    <div class="text"><h4>THINKING OF BUYING A HEADPHONE?</h4>
        <h1><b>HTML Business <br>Templates</b></h1>
        <button id="heading-button">Shop Now</button>
    </div>
</div>

```

```
<div class="intro">
```

```
    <h3>Finding a affordable and good quality headphones is not easy</h3>
```

```
    <div class="paragraph"><p>Headphone Zone gives a personalised experience in buying audio equipment that is *currently* unmatched in India. They match the consumer with the correct product, which is admirable.Headphone Zone gives a personalised experience in buying audio equipment that is *currently* unmatched in India. They match the consumer with the correct product, which is admirable. - Manu Abraham</p></div>
```

```
</div>
```

```
<div class="heading1"><h2><b>Business HTML Template Free Download</b></h2></div><br>
```

```
<div class="3images">
```

```
    <div class="heading"><h2>Hottest Headphones of the month</h2></div>
```

```
    <div class="details">
```

```
        <div class="inner-details">
```

```
            <div class="image"><button class="image-button">Shop Now</button></div>
```

```
            <div class="image-text">
```

```
                <div class="inner-heading"><h3>HEADPHONE</h3></div>
```

```
                <div class="inner-text">Best headphone of the year Best headphone of the year Best headphone of the year</div>
```

```
            </div>
```

```
        </div>
```

```
    <div class="inner-details">
```

```
        <div class="image"><button class="image-button">Shop Now</button></div>
```

```
        <div class="image-text">
```

```
            <div class="inner-heading"><h3>HEADPHONE</h3></div>
```

```
            <div class="inner-text">Best headphone of the year Best headphone of the year Best headphone of the year</div>
```

```
        </div>
```

```
    </div>
```

```
    <div class="inner-details">
```

```
<div class="image"><button class="image-button">Shop Now</button></div>
```

```
<div class="image-text">
```

```
<div class="inner-heading"><h3>HEADPHONE</h3></div>
```

```
<div class="inner-text">Best headphone of the year Best headphone of the year Best headphone of the year</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<br><br>
```

```
<h2 class="heading-above-pic">Meet our new headphones &#x1F525;</h2>
```

```
<div class="pictures">
```

```

```

```

```

```

```

```

```

```
</div>
```

```
<br><br>
```

```
<div class="pictures">
```

```

```

```

```

```

```

```

```

```
</div>
```

```
<br><br>
```

```
<div class="heading2"><h4>Hurry up limited offer!</h4>
```


<h2>Like it? Pre-order and get a discount</h2>

<button class="heading2-button">Shop Now</button>

</div>

<div class="footer"><h2>Why you should buy headphones from us only?</h2>

<div class="inner-footer">

<h2>HIGH QUALITY</h2>

<h2>ORIGINAL DEVICES</h2>

<h2>YEAR WARRANTY</h2>

<h2>TESTED</h2>

</div>

</div>

</body>

</html>



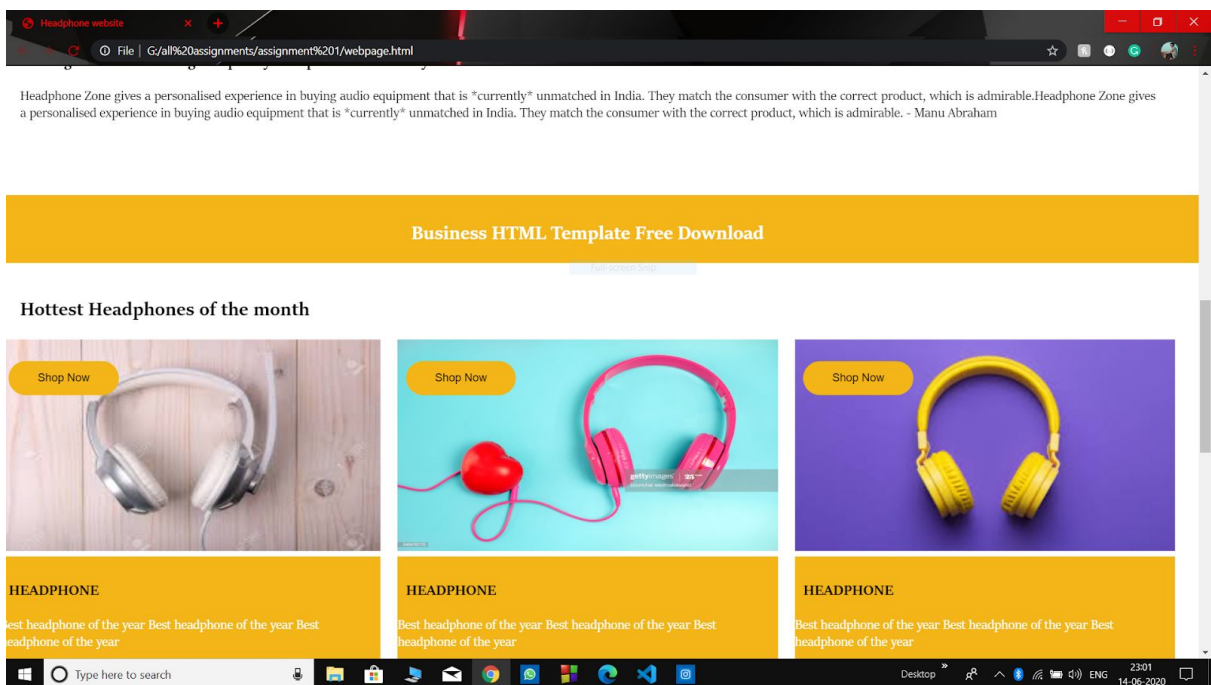
IMAGES:-







OUTPUT:-



ASSIGNMENT-:<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

```
<title>Document</title>
```

```
<style>
```

```
  .container{
```

```
    width: 500px;
```

```
    height: 500px;
```

```
    grid-template-columns: auto auto auto;
```

```
    display: grid;
```

```
    grid-gap: 10px;
```

```
    transform: rotate(45deg);
```

```
    margin: 0 auto;
```

```
  }
```

```
  .child{
```

```
    position: relative;
```

```
  }
```

```
  .img{
```

```
    position: absolute;
```

```
    top:0;
```

```
    left:0;
```

```
    width: 100%;
```

```
    height: 100%;
```

```
    background: url(a.jpg);
```

```
  }
```

```
  .txt{
```

```
    position: absolute;
```

```
    top:50%;
```

```
    left:50%;
```

```
    width: 0;
```

```
    height: 0;
```

```
    overflow: hidden;

    display: flex;

    justify-content: center;

    align-items: center;

    background-color: wheat;

    transition: 1s;

}

.txt span{

    transform: rotate(-45deg);

    font-size: 50px;

}
```

```
.child:hover .txt{

    top:0;

    left:0;

    width: 100%;

    height: 100%;

}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">

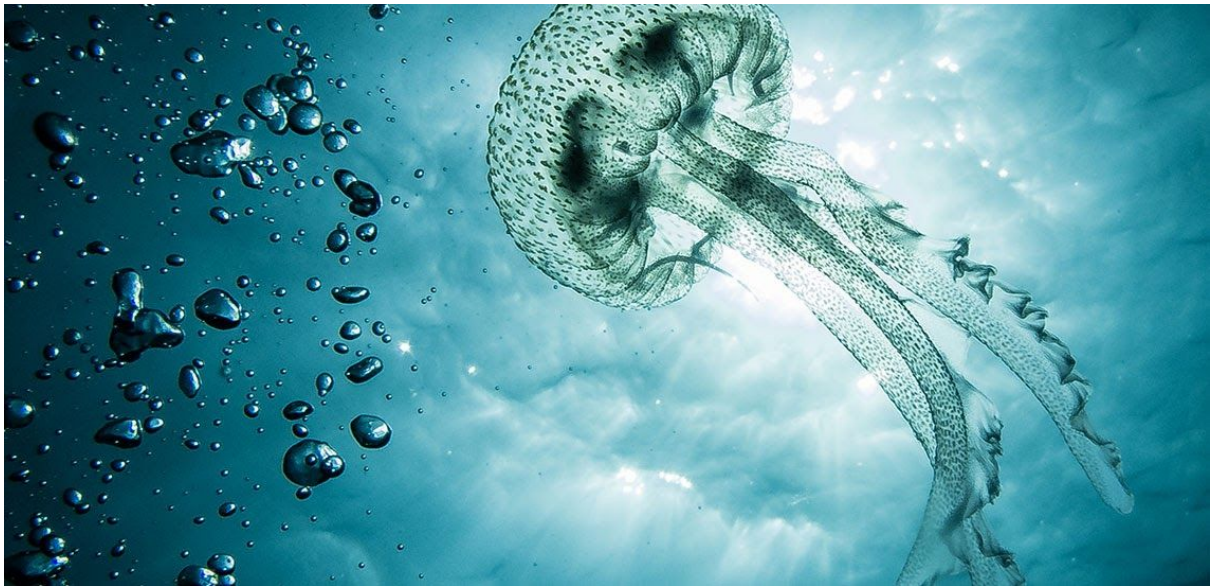
    <div class="child one "> </div>

    <div class="child two"> </div>
```

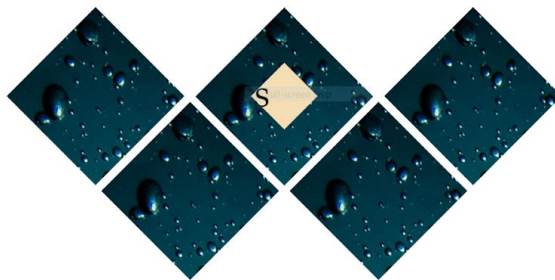
```
<div class="child three">
  <div class="img"> </div>
  <div class="txt"> <span>this is great</span> </div>
</div>
<div class="child four"> </div>
<div class="child five">
  <div class="img"> </div>
  <div class="txt"> <span>this is great</span> </div>
</div>
<div class="child six">
  <div class="img"> </div>
  <div class="txt"> <span>this is great</span> </div>
</div>
<div class="child seven">
  <div class="img"> </div>
  <div class="txt"> <span>this is great</span> </div>
</div>
<div class="child eight">
  <div class="img"> </div>
  <div class="txt"> <span>this is great</span> </div>
</div>
<div class="child nine"></div>
</div>

</body>
</html>
```

IMAGES-:



OUTPUT-:



ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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



```
<title>WebPage</title>
```

```
<style>
```

```
.container {  
    width: 100%;  
    /* background-color:grey; */  
}
```

```
.header ul {  
    display: flex;  
    justify-content: flex-end;  
    list-style-type: none;  
}
```

```
.header li {  
    text-decoration: none;  
    padding-top: 20px;  
}
```

```
.header {  
    height: 70px;  
    position: relative;  
    background-color: white;  
}
```

```
.header a {  
    text-decoration: none;  
    display: block;  
    color: black;  
}
```

```
.grid-layout {
```

```
padding-left: 40px;

display: grid;

grid-gap: 5px;

grid-template-areas: 'one two three' 'four five five';

/* background-color:darkgrey; */

}
```

```
.item1 {

    grid-area: one;

    border: 5px;

    border-style: solid;

    border-color: black;

    box-shadow: 10px 10px;

}
```

```
.item2 {

    grid-area: two;

    border: 5px;

    border-style: solid;

    border-color: black;

    box-shadow: 10px 10px;

}
```

```
.item3 {

    grid-area: three;

    border: 5px;

    border-style: solid;

    border-color: black;

    box-shadow: 10px 10px;

}
```

```
.item4 {  
    grid-area: four;  
    border: 5px;  
    border-style: solid;  
    border-color: black;  
    box-shadow: 10px 10px;  
}
```

```
.item5 {  
    grid-area: five;  
    border: 5px;  
    border-style: solid;  
    border-color: black;  
    box-shadow: 10px 10px;  
}
```

```
.grid-img {  
    margin: 20px;  
    height: 360px;  
    /* width: 100%; */  
    /* text-align: center; */  
    /* background-color: gray; */  
}
```

```
.grid-img {  
    position: relative;  
    background-color: white;  
    width: 550px;  
}
```

```
.image {
```

```
position: absolute;
top: 40px;
left: 160px;
height: 90px;
width: 90px;
border-radius: 50%;
}
```

```
.heading {
position: absolute;
top: 130px;
left: 150px;
}
```

```
.img-content {
position: absolute;
top: 180px;
left: 10px;
}
```

```
.learn-more {
position: absolute;
box-shadow: 2px 4px grey;
left: 120px;
}
```

```
.inner {
display: flex;
justify-content: space-around;
}
```

```

.flexed-div ul li {
    padding-top: 20px;
    list-style-type: none;
    /* list-style-image: url("list-marker.png"); */
}

#flexed-div1 {
    padding-top: 20px;
}

#flexed-div1 h3 {
    text-align: center;
}
</style>
</head>

<body>
<div class="container">
    <div class="header">
        <ul>
            <li style="position: absolute; left: 10px;"><a href="#splash">Splash</a></li>
            <li style="padding-right: 40px;"><a href="#intro">Intro</a></li>
            <li style="padding-right: 40px;"><a href="#blog">Blog</a></li>
            <li style="padding-right: 40px;"><a href="#home">Home</a></li>
            <li style="padding-right: 40px;"><a href="#works">Works</a></li>
            <li style="padding-right: 40px;"><a href="#contact">Contact</a></li>
            <li style="padding-right: 40px;"><a href="#pages">Pages</a></li>
            <li style="padding-right: 40px;"><a href="#component">Component</a></li>
            <button style="background-color: darkcyan; margin: 10px; border: 0px; border-radius:
100px;"><li style="padding: 20px; padding-right: 40px;"><a style="color: white;"
href="#quote">Request a Quote</a></li></button>

```


</div>

<hr>

<div style="text-align: center; background-color: white;" class="content">

<h1>What We Can Offer</h1>

</div>

<div class="grid-layout">

<div class="item1 grid-img">

<div class="heading">

<h3>web design</h3>

</div>

<div class="img-content">

<p>Consumers are inundated with ads,so its vitalthat your ad catches the eye and immediately grabs intrest Consumers are inundated with ads,so its vitalthat your ad catches the eye and immediately grabs intrest

<button class="learn-more">Learn More</button></p>

</div>

</div>

<div class="item2 grid-img">

<div class="heading">

<h3>mobile apps</h3>

</div>

<div class="img-content">

<p>Consumers are inundated with ads,so its vitalthat your ad catches the eye and immediately grabs intrest

<button class="learn-more">Learn More</button></p>

</div>

</div>

<div class="item3 grid-img">

```



<div class="heading">

  <h3>branding</h3>

</div>

<div class="img-content">

  <p>Consumers are inundated with ads,so its vitalthat your ad catches the eye and
immediately grabs intrest<br><br><button class="learn-more">Learn More</button></p>

</div>

</div>

<div class="item4 grid-img">

  <div class="heading">

    <h3>illustrations</h3>

  </div>

  <div class="img-content">

    <p>Consumers are inundated with ads,so its vitalthat your ad catches the eye and
immediately grabs intrest<br><br><button class="learn-more">Learn More</button></p>

    </div>

  </div>

<div class="item5 grid-img" style="width: 1200px;">

  <div class="inner">

    <div class="flexed-div" id="flexed-div1">

      <h3>Full Service Agency</h3>

      <div style="width: 460px;">

        <p>Consumers are inundated with ads,so its vitalthat your ad catches the eye and
immediately grabs intrest Consumers are inundated with ads,so its vitalthat your ad catches the eye
and immediately grabs intrest</p>

        </div>

        <button style="box-shadow: 2px 4px grey; height: 30px; width: 160px; border: 0px;
border-radius: 100px">Request Quote</button>

      </div>

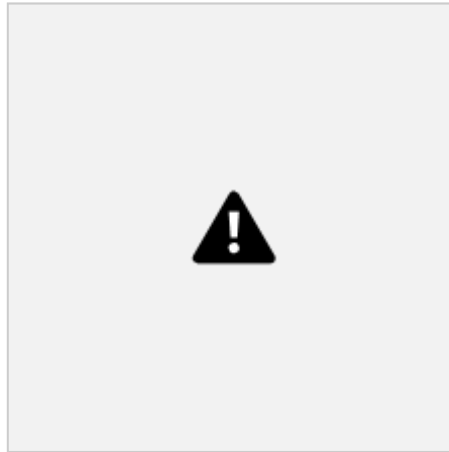
      <div class="flexed-div" id="flexed-div2">

```

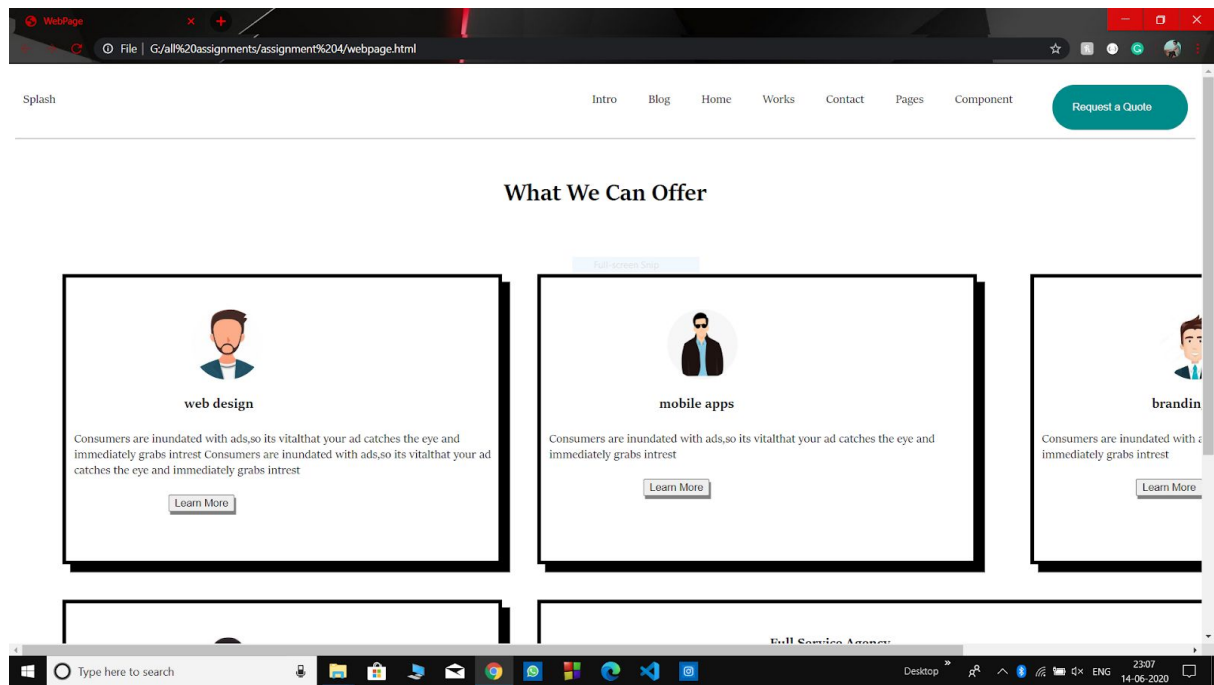
```
<ul>
  <li>SEO & Marketing</li>
  <li>Logotypes</li>
  <li>Print Design</li>
  <li>Testing optimisation</li>
  <li>Support</li>
</ul>
</div>
</div>
</div>
</div>
</div>
</body>

</html>
```

IMAGES-:



OUTPUT-:



ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Webpage</title>
```

```
  <style>
```

```
    .container {
```

```
      width: 100%;
```

```
      padding: 50px;
```

```
    }
```

```
    .box {
```

```
      padding: 100px;
```

```
      position: absolute;
```

```
      transform-style: preserve-3d;
```

```
    }
```

```
.front {  
    background-color: red;  
    height: 300px;  
    width: 300px;  
}
```

```
.top {  
    position: relative;  
    background-color: blue;  
    height: 148px;  
    width: 446px;  
    top: 39px;  
    left: 276px;  
    transform: perspective(109px) rotateX(-44deg);  
    border: black;  
    border-style: solid;  
    border-width: 1px;  
}
```

```
.left {  
    background-color: green;  
    position: relative;  
    transform: perspective(400px) rotateY(45deg);  
    /* transform: rotateY(45deg);  
    transform: perspective(400px);    */  
    height: 393px;  
    width: 350px;  
    top: -47px;  
    left: 80px;  
    border: black;
```

```
border-style: solid;  
border-width: 1px;  
}
```

```
.right {  
    background-color: green;  
    position: relative;  
    transform: perspective(400px) rotateY(-45deg);  
    /* transform: rotateY(-45deg);  
    transform: perspective(400px);    */  
    height: 393px;  
    width: 350px;  
    top: -47px;  
    left: -82px;  
    border: black;  
    border-style: solid;  
    border-width: 1px;  
}
```

```
.bottom {  
    position: relative;  
    background-color: blue;  
    height: 148px;  
    width: 446px;  
    top: -133px;  
    left: 275px;  
    transform: perspective(109px) rotateX(44deg);  
    border: black;  
    border-style: solid;  
    border-width: 1px;  
}
```

```
.inner {  
    display: flex;  
    transform-style: preserve-3d;  
}  
  
.button:hover .bottom {  
    background-color: aqua;  
    /* transform: perspective(209px) rotateX(44deg); */  
}  
</style>  
</head>  
  
<body>  
    <div class="container">  
        <div class="box">  
            <div class="top">  
                <h2>top</h2>  
            </div>  
            <div class="inner">  
                <div class="left">  
                    <h2>left</h2>  
                </div>  
                <div class="front">  
                    <h2>front</h2>  
                </div>  
                <div class="right">  
                    <h2>right</h2>  
                </div>  
            </div>  
            <div class="bottom">
```

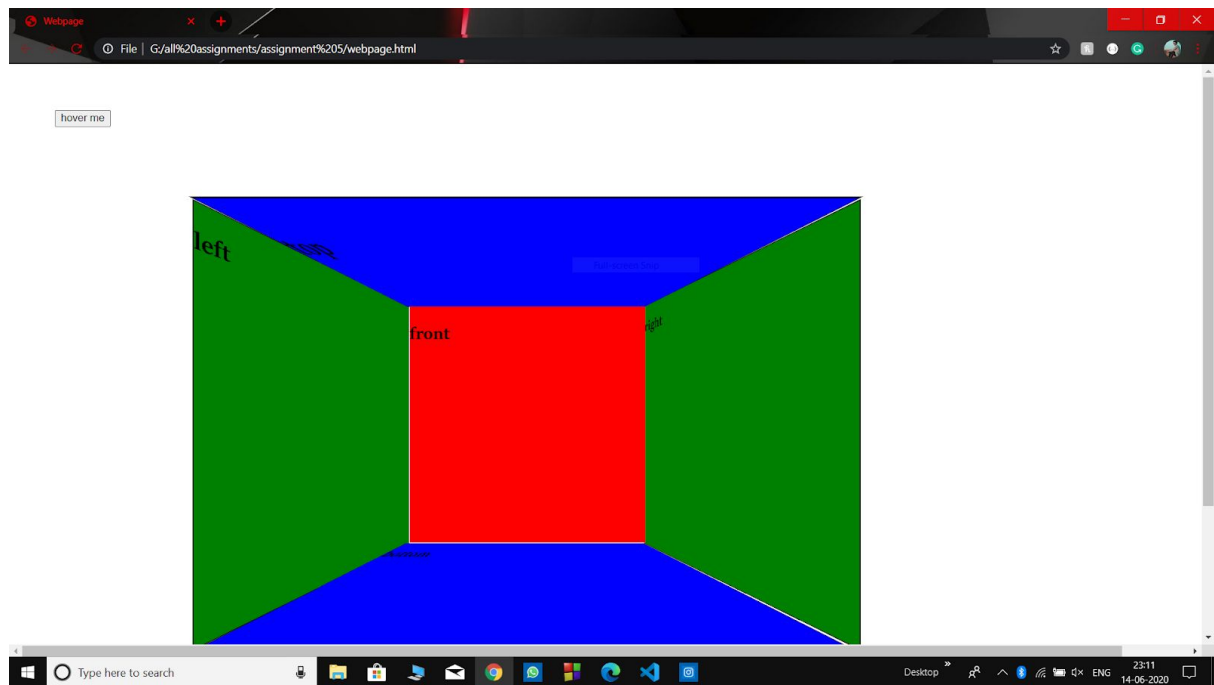
```

        <h2>bottom</h2>
    </div>
</div>
    <button class="button">hover me</button>
</div>
</body>

</html>

```

OUTPUT-:



ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
    <meta charset="UTF-8">
```

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

```
    <title>Webpsge</title>
```

```
    <style>
```

```
.container {  
    height: 500px;  
    background-color: whitesmoke;  
}
```

```
.inner {  
    height: 300px;  
    position: relative;  
}
```

```
.spinner {  
    position: absolute;  
    top: 50%;  
    left: 50%;  
    border: solid;  
    border-width: 5px;  
    border-color: grey;  
    border-top-width: 7px;  
    border-top-color: rgb(3, 73, 129);  
    border-radius: 50%;  
    height: 100px;  
    width: 100px;  
    animation-name: spin;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

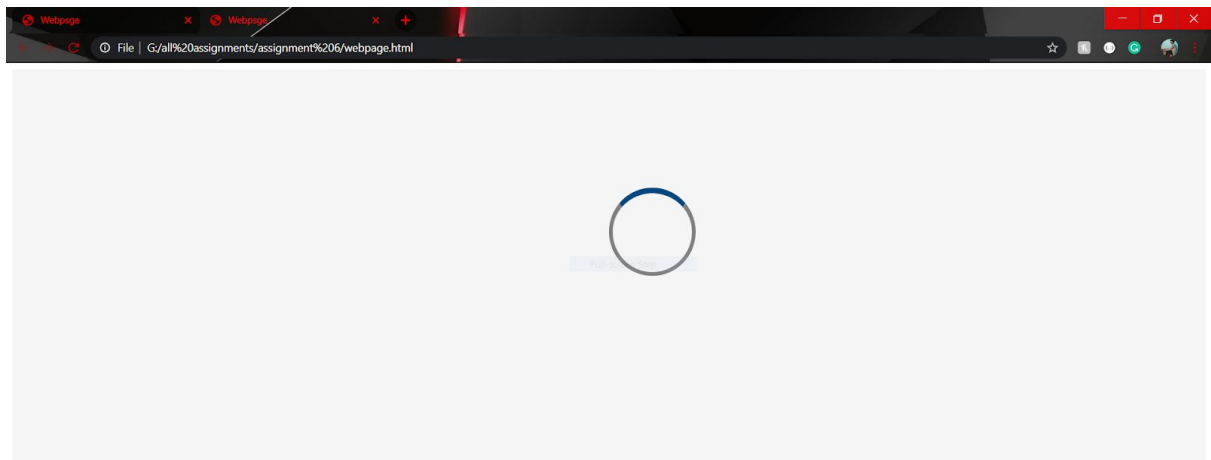
```
<div class="inner">
```

```
<div class="spinner">
```

```
        </div>
    </div>
</div>
</body>
```

```
</html>
```

OUTPUT-:



ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
    <meta charset="UTF-8">
```

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

```
    <title>Navbar</title>
```

```
    <style>
```

```
        .container {
```

```
            background-color: violet;
```



```
width: 100%;  
height: 40px;  
}
```

```
.navbar {  
    background-color: tomato;  
}
```

```
li {  
    list-style: none;  
    float: left;  
    margin: 10px;  
}
```

```
a {  
    text-decoration: none;  
    color: black;  
    display: none;  
}
```

```
#home:hover a {  
    display: block;  
    float: none;  
    width: 55px;  
    height: 30px;  
    background-color: violet;  
}
```

```
.firstA {  
    margin-top: 10px;  
}
```

```
</style>
</head>

<body>
  <div class="container">
    <div class="navbar">
      <ul>
        <li id="home">Home
          <div class="dropdown">
            <a class="firstA" href="">Home1</a>
            <a href="">Home2</a>
            <a href="">Home3</a>
          </div>
        </li>
        <li>Blog</li>
        <li>Exit</li>
      </ul>
    </div>
  </div>
</body>

</html>
```

OUTPUT-:



ASSIGNMENT-:

```
<!doctype html>
```

```
<html lang="en">
```

```
<head>
```

```
<!-- Required meta tags -->
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
```

```
<!-- Bootstrap CSS -->
```

```
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
integrity="sha384-9alt2nRpC12Uk9gS9baDI411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk"
crossorigin="anonymous">
```

```
<title>Facebook</title>
```

```
<style>
```

```
.navigation-bar{
    background-color: #3B5998;
    height: 90px;
}
```

```
.navbar{
    position:absolute;
}
.navbar-label{
    font-size: small;
    color:white;
}
.btn-sm{
    background-color: #3a5ea0;
    border: solid;
    border-color: black;
    border-width: 1px;
    color: white;
    margin-top: 25px;
    margin-left: 10px;
    border-radius: 0px;
}
.navbar--brand h1{
    color: white;
    text-decoration: solid;
    font-family: Helvetica,Arial,sans-serif;
    font-size: 40px;
    font-weight: 600;
    /* font-style: italic; */
}
.navbar--brand{
    position: relative;
    left: 30%;
    top: 20px;
}
.navbar-form{
```

```
position: relative;

left: 100%;
}

.forgot-account{
font-size: small;
margin-bottom: -18px;
color:rgb(163, 162, 162);
}

.forgot-account a{
text-decoration: none;
color:rgb(163, 162, 162);
}

.container-fluid{
/* background-color: aqua; */
height: 500px;
}

.flexed{
display: flex;
position: absolute;
/* background-color: aqua; */
height: 670px;

/* justify-content: space-evenly; */
}

.left{
position: relative;
top: 50px;
width: 650px;
margin-left: 100px;
}

.left-para{
```

```

font-family: Helvetica,Arial,sans-serif;

font-size: 20px;

font-weight: 700;
}

.r1{

font-family: Arial, Helvetica, sans-serif;

font-weight: 600;

}

.right{

position: relative;

top: 50px;

width: 650px;

margin-left: 100px;

}

</style>
</head>
<body>

<div class="navigation-bar">
<nav class="navbar navbar-light ">
<a class="navbar--brand"><h1>facebook</h1></a>
<form class="form-inline navbar-form">
<div>
<label class="navbar-label my-1" for="email">Email or Phone</label>
<input class="mx-1" type="text" placeholder="username">
</div>
<div>
<label class="navbar-label my-1" for="password">Password</label>
<input class="mx-1" type="password" placeholder="password">
<p class="forgot-account"><a href="">Forgotten account?</a></p>
</div>

```

```
    <button type="button" class="btn btn-sm">Log In</button>
  </form>
</nav>
</div>
```

```
<!-- <div class="container-fluid"> -->
<div class="flexed container-fluid">
  <div class="left">
    <div class="left-para">Facebook helps you connect and share with the<br>people in your
    life.</div>
    <div class="side-image"></div>
  </div>
```

```
<div class="right">
  <div class="row"><h1 class="r1">Create an account</h1></div>
  <div class="row"><h3>Its free and always will be.</h3></div>
  <div class="row my-3">
    <form>
      <div class="form-row">
        <div class="col">
          <input type="text" class="form-control" placeholder="First name">
        </div>
        <div class="col">
          <input type="text" class="form-control" placeholder="Last name">
        </div>
      </div>
    </form>
  </div>
</div>
```

```
<div class="row">
```

```
<form>

  <div class="form-group">

    <input type="text" class="form-control" id="inputAddress" placeholder="Mobile number or
Email address" style="width: 420px;">

  </div>

</form>

</div>
```

```
<div class="row">

  <form>

    <div class="form-group">

      <input type="text" class="form-control" id="inputAddress" placeholder="New Password"
style="width: 420px;">

    </div>

  </form>

</div>
```

```
<div class="row">

  <div class="form-row">

    <label for="inputDate" style="color:#90949C; font-weight: 500;">Birthday</label>

    <div class="col-3">

      <select class="form-control" style="width: 70px; border-radius: 0%; height: 35px;">

        <option value="" selected>12</option>

        <option value="">1</option>

        <option value="">2</option>

        <option value="">3</option>

        <option value="">4</option>

        <option value="">5</option>

        <option value="">6</option>

        <option value="">7</option>

        <option value="">8</option>

      </select>

    </div>

  </div>

</div>
```



```
<option value="">9</option>
<option value="">10</option>
<option value="">11</option>
</select>
</div>
<div class="col-3">
  <select class="form-control" style="width: 75px; border-radius: 0%; height: 35px;">
    <option value="" selected>JAN</option>
    <option value="">FEB</option>
    <option value="">MAR</option>
    <option value="">APR</option>
    <option value="">MAY</option>
    <option value="">JUN</option>
    <option value="">JUL</option>
    <option value="">AUG</option>
    <option value="">SEP</option>
    <option value="">OCT</option>
    <option value="">NOV</option>
    <option value="">DEC</option>
  </select>
</div>
<div class="col-3">
  <select class="form-control" style="width: 90px; border-radius: 0%; height: 35px;">
    <option value="" selected>1999</option>
    <option value="">2000</option>
    <option value="">2001</option>
    <option value="">2002</option>
    <option value="">2003</option>
    <option value="">2004</option>
    <option value="">2005</option>
    <option value="">2006</option>
```

```

        <option value="">2007</option>
        <option value="">2008</option>
        <option value="">2009</option>
        <option value="">2010</option>
    </select>
</div>
</div>

<h4><span class="badge badge-pill" style="border-color: black; background-color: #90949C;
margin-left: 10px;">?</span></h4>
</div>

```

```

<div class="row my-3">
    <div class="form-group">
        <label for="inputDate" style="color:#90949C; font-weight: 500;">Gender</label><br>
        <div class="custom-control custom-radio custom-control-inline">
            <input type="radio" id="customRadioInline1" name="customRadioInline1"
class="custom-control-input">
            <label class="custom-control-label" for="customRadioInline1">Male</label>
        </div>
        <div class="custom-control custom-radio custom-control-inline">
            <input type="radio" id="customRadioInline2" name="customRadioInline1"
class="custom-control-input">
            <label class="custom-control-label" for="customRadioInline2">Female</label>
        </div>
        <div class="custom-control custom-radio custom-control-inline">
            <input type="radio" id="customRadioInline3" name="customRadioInline1"
class="custom-control-input">
            <label class="custom-control-label" for="customRadioInline3">Other</label>
        </div>
    </div>
</div>

<h4><br><span class="badge badge-pill" style="border-color: black; background-color:
#90949C; margin-left: 10px;">?</span></h4>

```

```

</div>

<div class="row">

    <p style="font-size: small;">By clicking Sign Up, you agree to our Terms, Data Policy
    and<br>Cookie Policy. You may receive SMS notifications from us and<br>can opt out at any
    time.</p>

</div>

<div class="row">

    <button type="button" class="btn btn-success btn-lg" style="width: 200px; height:
    45px;">SIGN UP</button>

</div>

<div class="row my-4">

    <p style="font-size: small; font-weight: 700; color: #90949C;"><a>Create a Page</a> for a
    celebrity, band or business.</p>

</div>

</div>

</div>

</div>

<!-- </div> -->

<!-- Optional JavaScript -->

<!-- jQuery first, then Popper.js, then Bootstrap JS -->

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
integrity="sha384-Q6E9RHvblyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"
integrity="sha384-OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI"
crossorigin="anonymous"></script>

</body>

</html>

IMAGES:

```

facebook

Email or Phone

username

password

Log In

Forgotten account?

Facebook helps you connect and share with the people in your life.

Create an account

Its free and always will be.

First name

Last name

Mobile number or Email address

New Password

12

JAN

1999

?

Gender

Male

Female

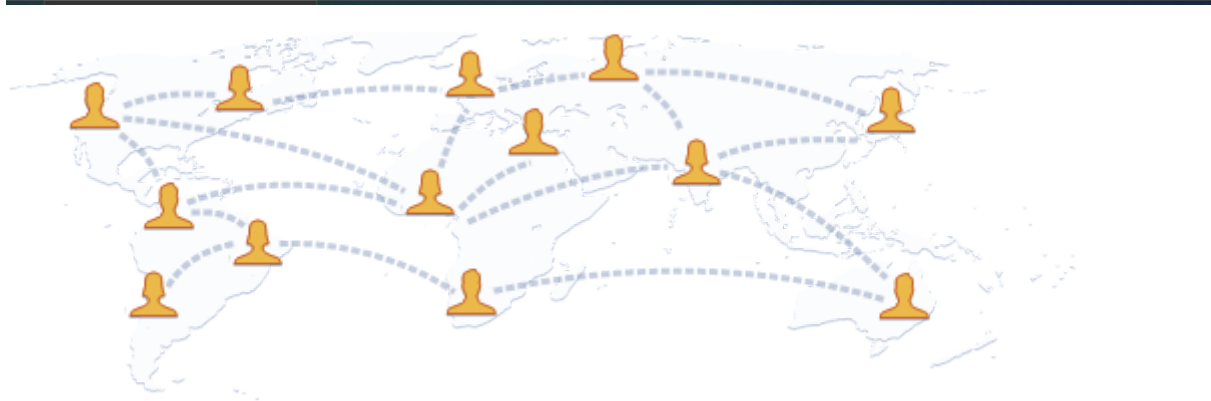
Other

?

By clicking Sign Up, you agree to our Terms, Data Policy and Cookie Policy. You may receive SMS notifications from us and can opt out at any time.

SIGN UP

Create a Page for a celebrity, band or business.



OUTPUT-:

Facebook

Email or Phone

user:xyz

password

Log In

Forgotten account?

facebook

Facebook helps you connect and share with the people in your life.

Create an account

Its free and always will be.

First name

Last name

Mobile number or Email address

New Password

12

JAN

1999

?

Gender

Male

Female

Other

?

By clicking Sign Up, you agree to our Terms, Data Policy and Cookie Policy. You may receive SMS notifications from us and can opt out at any time.

SIGN UP

Create a Page for a celebrity, band or business.

ASSIGNMENT-:

```
<!doctype html>
```

```
<html lang="en">
```

```
<head>
```

```
  <!-- Required meta tags -->
```

```
  <meta charset="utf-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
```

```
  <!-- Bootstrap CSS -->
```

```
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
integrity="sha384-9alt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk"
crossorigin="anonymous">
```

```
  <title>calculator</title>
```

```
</head>
```

```
<body>
```

```
  <div class="container">
```

```
    <form>
```

```
      <div class="form-row">
```

```
        <div class="col-md-6 mb-3">
```

```
          <label for="validationCustom01">Number 1</label>
```

```
          <input type="text" class="form-control" id="validationCustom01" required>
```

```
        </div>
```

```
        <div class="col-md-6 mb-3">
```

```
          <label for="validationCustom02">Number 2</label>
```

```
          <input type="text" class="form-control" id="validationCustom02" required>
```

```
        </div>
```

```
      </div>
```

```
    <div class="form-row">
```

```

<div class="col-md-6">

  <label for="inputState">Operations</label>

  <select id="inputState" class="form-control">

    <option value="1">+</option>
    <option value="2">-</option>
    <option value="3">*</option>
    <option value="4">/</option>

  </select>

</div>

<div class="col-md-6 my-2">

  <br><button type="button" class="btn btn-primary" id="result">Calculate</button>

</div>

</div>

<br>

<div class="row form-group pl-2 pr-2">

  <div class="col">

    <button class="btn btn-success btn-block"> Result = <span class="badge" id="output" >
</span> </button>

  </div>

</div>

</form>

</div>

<!-- Optional JavaScript -->

<!-- jQuery first, then Popper.js, then Bootstrap JS -->

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
integrity="sha384-Q6E9RHvblyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>

```

```
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"
integrity="sha384-OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3lpu6Tp75j7Bh/kR0JkI"
crossorigin="anonymous"></script>
```

```
<script>
```

```
    var btn = document.getElementById("result");
```

```
    btn.addEventListener("click", calculate);
```

```
    function calculate() {
```

```
        var res;
```

```
        var number1 = Number(document.getElementById("validationCustom01").value);
```

```
        var number2 = Number(document.getElementById("validationCustom02").value);
```

```
        var resultArea = document.getElementById("output");
```

```
        var operation = document.getElementById("inputState").value;
```

```
        if (operation == "1")
```

```
            res = number1 + number2;
```

```
        else if (operation == "2")
```

```
            res = number1 - number2;
```

```
        else if (operation == "3")
```

```
            res = number1 * number2;
```

```
        else if (operation == "4")
```

```
            res = number1 / number2;
```

```
        resultArea.innerText = res;
```

```
        // event.preventDefault(); // Cancel the native event
```

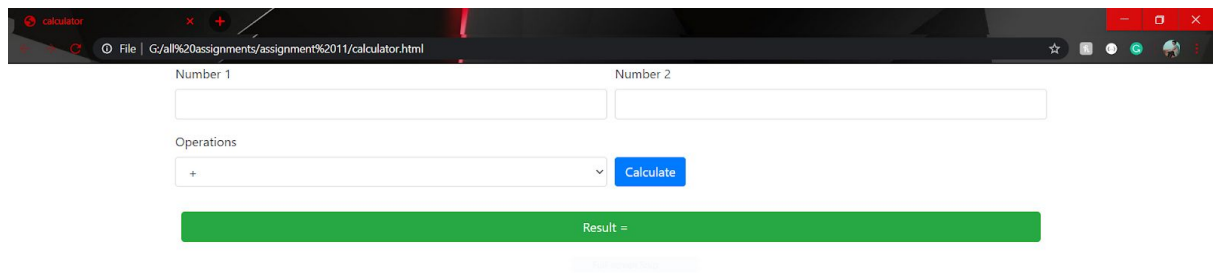
```
    }
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT-:



ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Validation</title>
```

```
</head>
```

```
<body>
```

```
  <h2>Enter your details below-</h2>
```

```
  <br>
```

```
  <form action="success.html" onsubmit="return validateForm()">
```

```
    <label for="">username</label>
```

```
    <input type="text" required id="name"><br><br>
```

```
    <span class="error"></span>
```

```
    <label for="">email</label>
```


<input type="email" required id="email">

<label for="">mobile number</label>

<input type="tel" required id="mob">

<label for="">password</label>

<input type="current-password" required id="passwd">

<label for="">gender</label>

<input type="radio" id="male" name="gender" value="male">

<label for="male">Male</label>

<input type="radio" id="female" name="gender" value="female">

<label for="female">Female</label>

<input type="radio" id="other" name="gender" value="other">

<label for="other">Other</label>

<label for="">hobbis</label>

<input type="checkbox" id="vehicle1" class="hobbies" name="vehicle1" value="Bike">

<label for="vehicle1">Coding</label>

<input type="checkbox" id="vehicle2" class="hobbies" name="vehicle2" value="Car">

<label for="vehicle2">Watching movie</label>

<input type="checkbox" id="vehicle3" class="hobbies" name="vehicle3" value="scooty">

<label for="vehicle3">Playing Cricket</label>

<input type="checkbox" id="vehicle4" class="hobbies" name="vehicle4" value="Boat">

<label for="vehicle4">Traveling</label>

<button type="submit">Submit</button>

</form>

<script>

```
function validateForm(){
    let name = document.getElementById("name").value;
    let email = document.getElementById("email").value;
    let mob = document.getElementById("mob").value;
    let passwd = document.getElementById("passwd").value;
    let error_span = document.getElementsByClassName("error");

    let name_regex = RegExp("[a-zA-Z]");
    // let email_regex = RegExp("[a-zA-Z][@]{1}");
    let mob_regex = RegExp("[0-9]{10}");
    let passwd_regex = RegExp("[a-zA-Z0-9]{8,}");

    let name_result = name_regex.test(name);
    if(name_result==false)
    {
        let parent = document.getElementsByClassName("error")[0];
        let error = document.createElement("h3");
        error.innerText = "wrong username";
        parent.append(error);
        return false;
    }

    // let email_result = email_regex.test(email);
    // if(email_result==false)
    // {
    //     alert("email "+email_result);
    //     return false;
    // }
```

```
let mob_result = mob_regex.test(mob);  
if(mob_result==false)  
{  
    let parent = document.getElementsByClassName("error")[1];  
    let error = document.createElement("h3");  
    error.innerText = "mob number should have 10 digits";  
    parent.append(error);  
    return false;  
}
```

```
let passwd_result = passwd_regex.test(passwd);  
if(passwd_result==false)  
{  
    let parent = document.getElementsByClassName("error")[2];  
    let error = document.createElement("h3");  
    error.innerText = "password should be 8 digits long";  
    parent.append(error);  
    return false;  
}
```

```
if(!(document.getElementById("male").checked) &&  
!(document.getElementById("female").checked) && !(document.getElementById("other").checked)){  
    let parent = document.getElementsByClassName("error")[3];  
    let error = document.createElement("h3");  
    error.innerText = "select atleast 1 gender";  
    parent.append(error);  
    return false;  
}  
  
var count=0;  
  
var hobby = document.getElementsByClassName("hobbies");  
for (let index = 0; index < hobby.length; index++) {
```

```
        if(hobby[index].checked)
        {
            count++;
        }
    }
    if(count<2)
    {
        let parent = document.getElementsByClassName("error")[4];
        let error = document.createElement("h3");
        error.innerText = "select atleast 2 or more hobbies";
        parent.append(error);
        return false;
    }

    return true;
}
</script>
</body>
</html>
```

OUTPUT-:



Enter your details below-

username

email

mobile number

password

gender ☐ Male ☐ Female ☐ Other

hobbis ☐ Coding

☐ Watching movie

☐ Playing Cricket

☐ Travelling



ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Document</title>
```

```
<script>
```

```
  function fun() {
```

```
    let x = document.getElementById("ex1").value;
```

```
    let rex = new RegExp(x);
```

```
    let y = document.getElementById("ex2").value;
```

```
    alert(rex.test(y));
```

```
  }
```

</script>

</head>

<body>

REGEX: <input type="text" id="ex1">

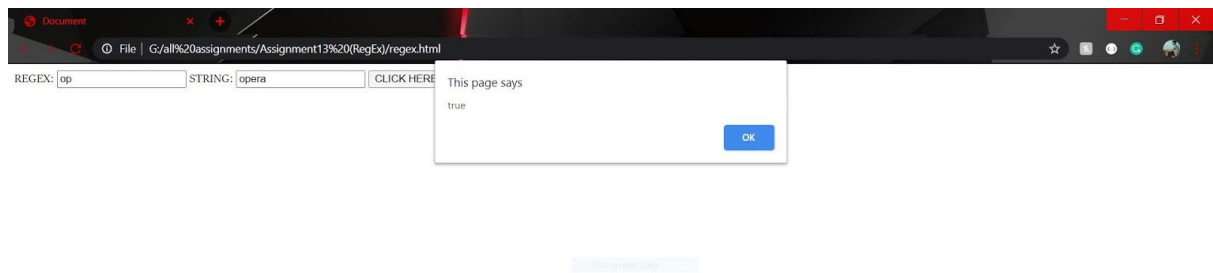
STRING: <input type="text" id="ex2">

<button onclick="fun()">CLICK HERE</button>

</body>

</html>

OUTPUT-:



ASSIGNMENT-:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

```
<title>live and static</title>
</head>
<body>
  <div class="container">
    <p>one</p>
    <p class="canDelete">two</p>
    <p class="canDelete">three</p>
    <p class="canDelete">four</p>
    <p>five</p>
  </div>
  <br>
  <button onclick="livecount()">live</button>
  <button onclick="staticcount()">static</button>
  <button onclick="addnew()">add new para</button>

  <script>
    let para_live = document.getElementsByTagName("p");
    let para_static = document.querySelectorAll("p");

    function livecount(){
      console.log("live count of para "+para_live.length);
    }

    function staticcount(){
      console.log("static count of para "+para_static.length);
    }

    let deletePara = document.getElementsByClassName("canDelete");
    console.log("all paras which can be deleted"+deletePara);
    for (let index = 0; index < deletePara.length; index++) {
      deletePara[index].addEventListener("click",function(e){
```

```

        e.target.remove();
    })
}

```

```

function addnew(){
    let newpara = document.createElement('p');
    newpara.innerText = "this is new para";
    let parent = document.getElementsByClassName("container")[0];
    parent.append(newpara);
}

```

```

</script>

```

```

</body>

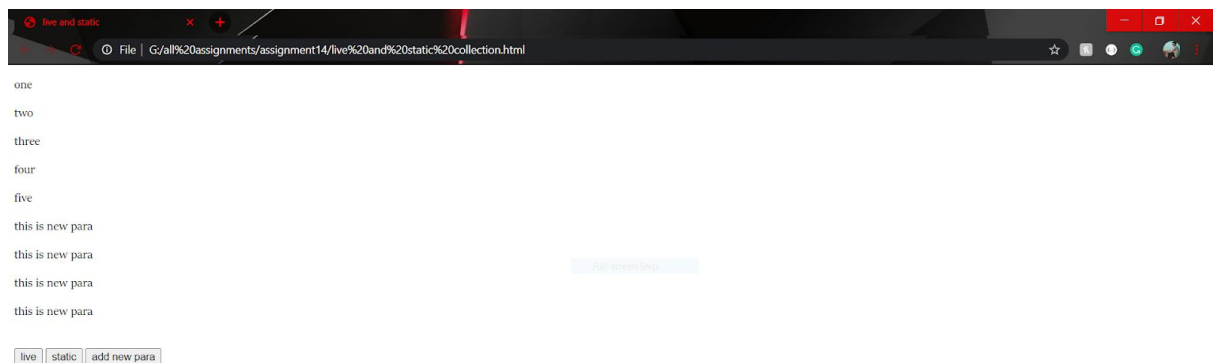
```

```

</html>

```

OUTPUT-:



ASSIGNMENT-:

```

<!doctype html>

```

```

<html lang="en">

```



```
<head>

<!-- Required meta tags -->

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">


<!-- Bootstrap CSS -->

<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
integrity="sha384-9alt2nRuC12Uk9gS9baDI411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk"
crossorigin="anonymous">


<title>Sidebar</title>

<style>

    #flexed {

        display: flex;

    }


    .content {

        background-color: gray;

        width: 100%;

        height: 900px;

    }


    .sidebar {

        background-color: black;

        width: 250px;

    }


    .sidebar li {

        list-style: none;

        list-style-type: none;

    }
```

```

.sidebar a {
    text-decoration: none;
    color: bisque;
}
/* #inner-list{
display: none;
} */

.sidebar ul li:hover h2 a {
    color: white;
}

#inner-list h3:hover a {
    color: white;
}
</style>
</head>

<body>
<div id="flexed">
<div class="sidebar">
<ul>
<li>
<h2 style="color: aliceblue;">HOME <span id="dropdown">&#9661</span></h2>
<div id="inner-list">
<h3><a href="">ABOUT</a></h3>
<h3><a href="">SERVICES</a></h3>
<h3><a href="">CONTACT</a></h3>
</div>
</li>

```

```
<li>

  <h2><a href="">HOME2</a></h2>

</li>

<li>

  <h2><a href="">HOME3</a></h2>

</li>

<li>

  <h2><a href="">HOME4</a></h2>

</li>

</ul>

</div>
```

```
<div class="content">

  <span id="open-close" style="font-size:30px;cursor:pointer">&#9776; open</span>

  <h1 class="display-2">WELCOME FOLKS</h1>

</div>

</div>
```

```
<!-- Optional JavaScript -->
```

```
<!-- jQuery first, then Popper.js, then Bootstrap JS -->
```

```
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
integrity="sha384-Q6E9RHvblyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>
```

```
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"
integrity="sha384-OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvVjZE3Ipu6Tp75j7Bh/kR0JkI"
crossorigin="anonymous"></script>
```

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
```

```
<script>
```

```
$(document).ready(function() {
```

```

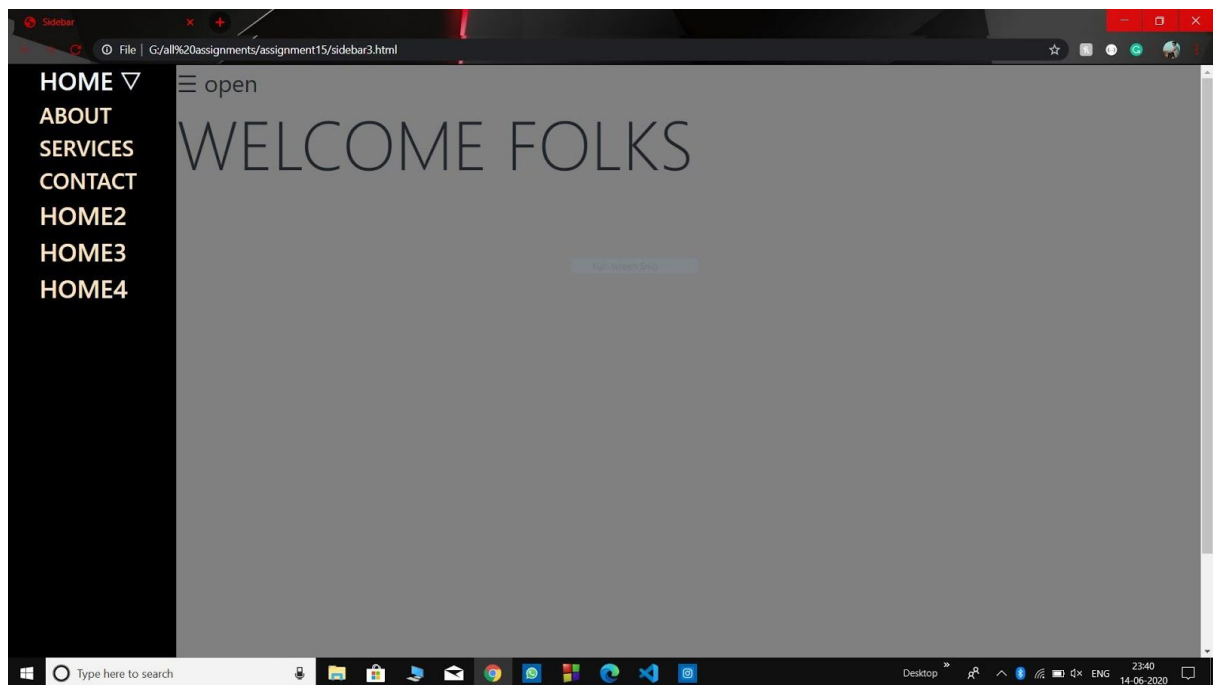
    $("#open-close").click(function() {
        $(".sidebar").toggle(250, "linear");
    });
});

$(document).ready(function() {
    $("#dropdown").click(function() {
        $("#inner-list").slideToggle();
    });
});
</script>
</body>

</html>

```

OUTPUT:-



ASSIGNMENT:-

```

<!DOCTYPE html>

<html lang="en">

```

```
<head>

  <meta charset="UTF-8">

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

  <title>Document</title>


</head>


<body>

  <input type="text" name="city1" id="city1">

  <button onclick="cityWiseStudent()">search student by city</button>

  <br><br>

  <!-- <input type="text" name="category" id="category"> -->

  <button onclick="categoryWiseTopper()">toppers by category</button>

  <br><br>

  <!-- <input type="text" name="city2" id="city2"> -->

  <button onclick="cityWiseToppers()">toppers by city</button>

  <br><br>

  <!-- <input type="text" name="city3" id="city2"> -->

  <button onclick="totalCityWiseStudent()">citywise number of students</button>

  <br><br>

  <button onclick="passedStudent()">all passed student</button>

  <br><br>

  <button onclick="displayAllStudents()">display Students</button>

  <br><br>

  <div id="filteredData">


</div>


<script>
```

```
var classRoom = {  
  standard: 5,  
  no_of_students: 6,  
  students: [  
    {  
      name: "rahul",  
      age: 35,  
      mobile: [34343, 5656, 57],  
      city: "jpr",  
      category: "GEN",  
      marks: [45, 56, 67]  
    },  
    {  
      name: "ramesh",  
      age: 12,  
      mobile: [56, 57],  
      city: "pune",  
      category: "OBC",  
      marks: [45, 56, 12]  
    },  
    {  
      name: "manoj",  
      age: 10,  
      mobile: [156, 5237],  
      city: "jpr",  
      category: "GEN",  
      marks: [15, 16, 12]  
    },  
    {  
      name: "neha",
```

```
    age: 42,
    mobile: [216, 2367],
    city: "del",
    category: "ST",
    marks: [45, 66, 92]
  },
  {
    name: "rani",
    age: 67,
    mobile: [5446, 7057],
    city: "guj",
    category: "OBC",
    marks: [45, 56, 25]
  },
  {
    name: "manish",
    age: 42,
    mobile: [456, 659],
    city: "del",
    category: "OBC",
    marks: [45, 56, 12]
  },
]
}
```

```
var table;
```

```
var filteredData = document.getElementById("filteredData");
```

```
function cityWiseStudent() {
```

```
    var input_city = document.getElementById("city1").value;
```

```
table = `<table>
```

```
  <tr>
```

```
    <th>Name</th>
```

```
    <th>Age</th>
```

```
    <th>Mobile</th>
```

```
    <th>category</th>
```

```
    <th>Marks</th>
```

```
  </tr>
```

```
  ,
```

```
classRoom["students"].forEach(function (e) {
```

```
  // console.log(e);
```

```
  if (e["city"] == input_city) {
```

```
    table += `
```

```
      <tr>
```

```
        <th>${e["name"]}</th>
```

```
        <th>${e["age"]}</th>
```

```
        <th>${e["mobile"]}</th>
```

```
        <th>${e["category"]}</th>
```

```
        <th>${e["marks"]}</th>
```

```
      </tr>
```

```
      ,
```

```
    }
```

```
  });
```

```
  table += "</table>";
```

```
  filteredData.innerHTML = table;
```

```
}
```

```
function categoryWiseTopper() {
```



```
table = `<table>

<tr>

  <th>Marks</th>

  <th>category</th>

  <th>name</th>

</tr>
```

,

```
let obj = {};

classRoom["students"].forEach(function (e) {

  // console.log(e["marks"]);

  if (check(e["category"], obj)) {

    let total = totalmarks(e["marks"]);

    // let city = e["city"];

    let name = e["name"];

    let cat = e["category"];

    obj[cat] = [total, name];

  }

  else {

    let cat = e["category"];

    let total = totalmarks(e["marks"]);

    let name = e["name"];

    if (total > obj[cat][0]) {

      obj[cat] = [total, name];

    }

  }

});
```

```
for (i in obj) {

  table += `
```

```

        <tr>
            <th>${obj[i][0]}</th>
            <th>${i}</th>
            <th>${obj[i][1]}</th>
        </tr>
    `
    }

```

```

    table += "</table>";
    filteredData.innerHTML = table;
}

```

```
function cityWiseToppers() {
```

```

    table = `<table>
        <tr>
            <th>Marks</th>
            <th>city</th>
            <th>name</th>
        </tr>
    `

```

```

    let obj = {};
    classRoom["students"].forEach(function (e) {
        // console.log(e["marks"]);
        if (check(e["city"], obj)) {
            let total = totalmarks(e["marks"]);
            // let city = e["city"];
            let name = e["name"];
            let cit = e["city"];
            obj[cit] = [total, name];
        }
    });
}

```

```

else {
    let cit = e["city"];
    let total = totalmarks(e["marks"]);
    let name = e["name"];
    if (total > obj[cit][0]) {
        obj[cit] = [total, name];
    }
}
});

```

```

for (i in obj) {
    table += `
        <tr>
            <th>${obj[i][0]}</th>
            <th>${i}</th>
            <th>${obj[i][1]}</tr>
        </tr>
    `
}

```

```

table += "</table>";
filteredData.innerHTML = table;
}

```

```

function totalCityWiseStudent() {
    table = `<table>
    <tr>
        <th>city</th>
        <th>students count</th>
    </tr>

```

```
let obj = {};  
classRoom["students"].forEach(function (e) {  
    // console.log(e["marks"]);  
    if (check(e["city"], obj)) {  
        let cit = e["city"];  
        var count = 1;  
        obj[cit] = count;  
    }  
    else {  
        let cit = e["city"];  
        count = obj[cit] + 1;  
        obj[cit] = count;  
    }  
});
```

```
for (i in obj) {  
    table += `  
        <tr>  
            <th>${i}</th>  
            <th>${obj[i]}</th>  
        </tr>  
    `;  
}  
  
table += "</table>";  
filteredData.innerHTML = table;  
}
```

```
function passedStudent() {
```

```
}
```

```
function displayAllStudents() {
```

```
    table = `<table>
```

```
        <tr>
```

```
            <th>Name</th>
```

```
            <th>Age</th>
```

```
            <th>Mobile</th>
```

```
            <th>category</th>
```

```
            <th>Marks</th>
```

```
        </tr>
```

```
    `
```

```
    classRoom["students"].forEach(function (e) {
```

```
        table += `
```

```
            <tr>
```

```
                <th>${e["name"]}</th>
```

```
                <th>${e["age"]}</th>
```

```
                <th>${e["mobile"]}</th>
```

```
                <th>${e["category"]}</th>
```

```
                <th>${e["marks"]}</th>
```

```
            </tr>
```

```
        `
```

```
    });
```

```
    table += "</table>";
```

```
    filteredData.innerHTML = table;
```

```
}
```

```
function check(passedCity, obj) {  
    var x;  
    for (x in obj) {  
        if (x == passedCity)  
            return false;  
    }  
    return true;  
}
```

```
function totalmarks(marks) {  
    var total = 0;  
    var x;  
    for (x in marks) {  
        total += marks[x];  
    }  
    console.log(total);  
    return total;  
}
```

</script>

</body>

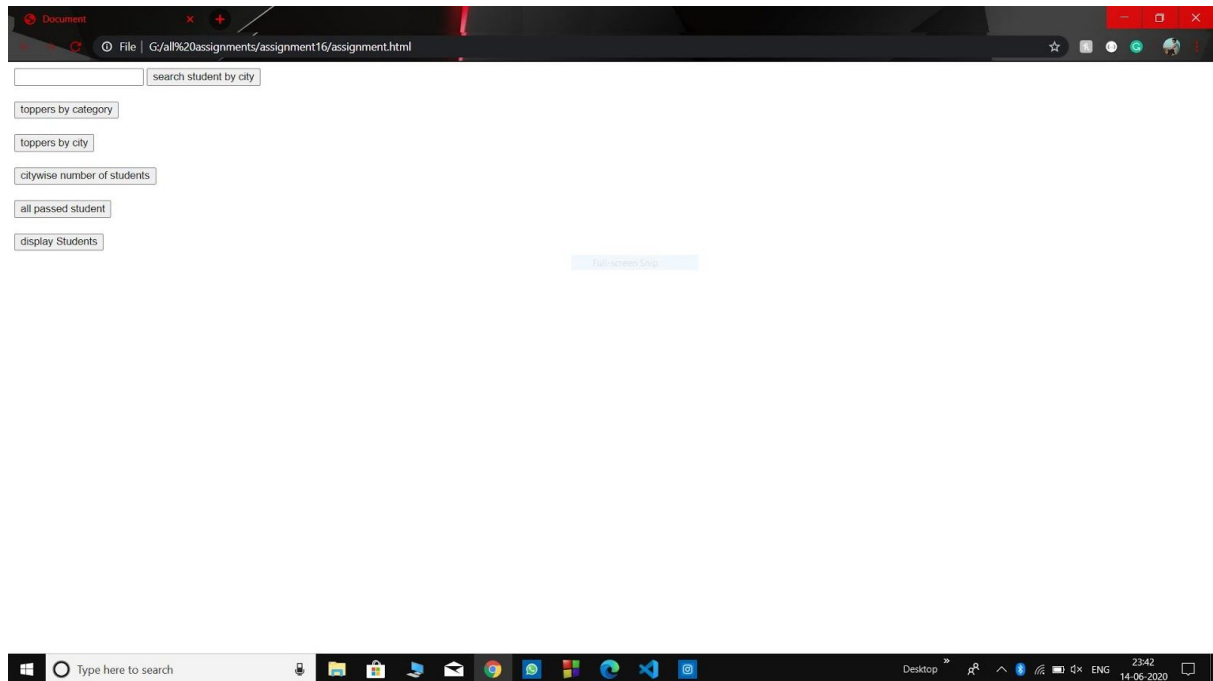
</html>

<!--

1. allstudents that belongs to a specific city (all fields of students)
2. list of all passed Students (all fields of student)
3. category wise topper (category, name, totalmarks)
4. cityWise topper (city name, name, total marks)

5. city wise no. of student (city name, no.of student) →

OUTPUT-:



ASSIGNMENT-:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Document</title>
```

```
</head>
```

```
<body>
```

```
  <script>
```

```
    var marks = [11, 12, 13, 10, 9];
```

```
    var marks = [11, 12, 13, 10, 9];
```

```
    var age = [20, 22, 24, 18, 16];
```

```
    var name = ["a", "b", "x", "y", "c"];
```

```

function Person(marks, age, name) {

    this.marks = marks;

    this.age = age;

    this.name = name;

}

for (let i = 0; i < marks.length; i++) {

    var z = new Person(marks[i], age[i], name[i]);

    console.log(z);

}

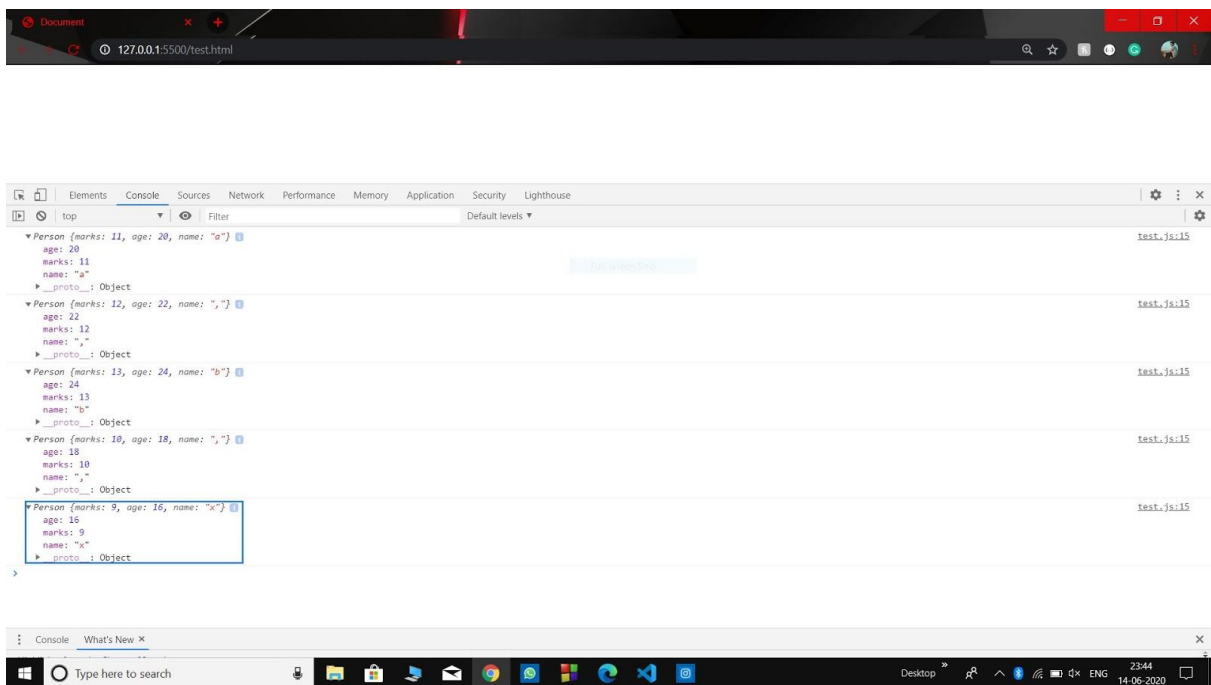
</script>

</body>

</html>

```

OUTPUT-:



ASSIGNMENT-:

```

<!DOCTYPE html>

<html lang="en">

```



```
<head>

  <meta charset="UTF-8">

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

  <title>Document</title>

</head>
```

```
<body>

  <script>

    var Student = /** @class */ (function() {

      function Student() {}

      Student.prototype.print = function() {

        console.log(this.roll);

        console.log(this.name);

        console.log(this.result);

      };

      return Student;

    }());

    var Clerk = /** @class */ (function() {

      function Clerk() {}

      Clerk.prototype.processStudent = function(student) {

        var marks = {

          5: 45,

          6: 90,

          7: 80

        };

        for (var key in marks) {

          if (student.roll == key)

            student.result = marks[key];

        }

      };

      return Clerk;

    }());
```

```

    });

    var std1 = new Student();

    std1.name = "Aman";

    std1.roll = 7;

    var clr1 = new Clerk();

    clr1.processStudent(std1);

    std1.print();

</script>

</body>

</html>

```

OUTPUT:-

The screenshot shows a Visual Studio Code editor with a TypeScript file named 'typescript.ts'. The code defines a 'Student' class with properties 'name' and 'roll', and a 'Clerk' class with a method 'processStudent' that takes a 'Student' object and prints its details. The 'Clerk' class also has a 'return Clerk;' statement. The output in the terminal shows the execution of the code, resulting in the output '7 Aman 88'.

```

18         for (var key in marks) {
19             if (student.roll == key)
20                 student.result = marks[key];
21         }
22     };
23     return Clerk;
24 }();
25 var std1 = new Student();
26 std1.name = "Aman";
27 std1.roll = 7;
28 var clr1 = new Clerk();
29 clr1.processStudent(std1);
30 std1.print();
31

```

```

G:\all assignments\assignment18>tsc typescript.ts
G:\all assignments\assignment18>tsc typescript.ts
G:\all assignments\assignment18>node typescript.js
7
Aman
88
G:\all assignments\assignment18>

```

ASSIGNMENT:-

```

var __extends = (this && this.__extends) || (function () {
    var extendStatics = function (d, b) {
        extendStatics = Object.setPrototypeOf ||
            ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
            function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
        return extendStatics(d, b);
    };

```

```

};

return function (d, b) {

    extendStatics(d, b);

    function __() { this.constructor = d; }

    d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());

};

})();

var Person = /** @class */ (function () {

    function Person(a, b) {

        this.name = a;

        this.age = b;

    }

    Person.prototype.print = function () {

        console.log(this.name);

        console.log(this.age);

    };

    return Person;

})();

var Student = /** @class */ (function (_super) {

    __extends(Student, _super);

    function Student(a, b, c) {

        var _this = _super.call(this, a, b) || this;

        _this.name = a;

        _this.age = b;

        _this.roll = c;

        return _this;

    }

    Student.prototype.print = function () {

        console.log(this.name);

        console.log(this.age);

        console.log(this.roll);

    };

});

```

```
        console.log(this.marks);
    };
    return Student;
}(Person));
var Clerk = /** @class */ (function () {
    function Clerk(arr) {
        this.arrmarks = arr;
    }
    Clerk.prototype.processStudent = function (st) {
        var r = st.roll;
        st.marks = this.arrmarks[r - 1];
    };
    return Clerk;
}());
var st = new Student("Aman", 19, 2);
var arrmarks = [33, 45, 56, 63, 78, 89, 99];
var clr = new Clerk(arrmarks);
clr.processStudent(st);
st.print();
```

OUTPUT-:

