

ICP3 Assignment

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Goal of Assignment :

The main aspect of the assignment is to learn and understand bootstrap's basics, foremost is Grid layout in bootstrap, the fundamentals of the Responsive Web Design (RWD) and basic java script.

The tasks in the ICPS are as follows:

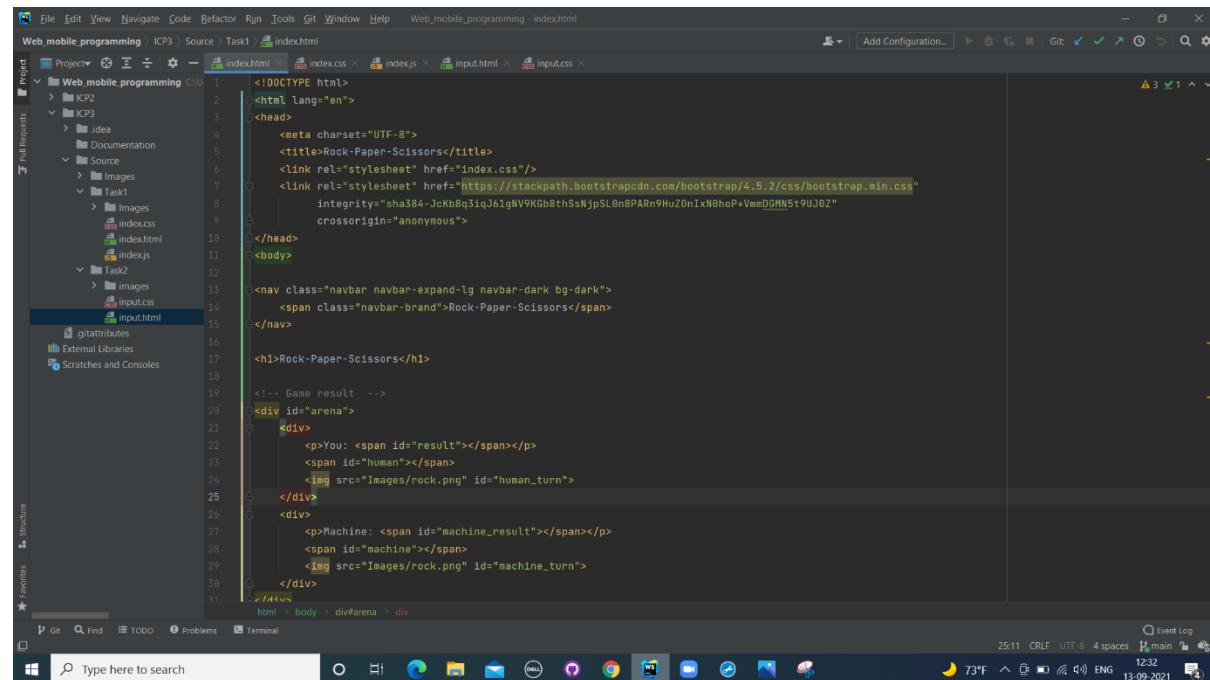
Task1:

1)Rock-Paper-Scissors:

The task in this game is to design Rock-Paper-Scissors game. In this, user and the computer plays the game and scores are graded accordingly in the page. Computer and User selects their choice and, scores are given.

This task requires html, css and JavaScript. Below are the snapshots of the code:

HTML Code :



The screenshot shows a code editor interface with the following details:

- Project Structure:** The project is named "Web_mobile_programming" and contains three main branches: ICP2, ICP3, and Task1. Task1 is currently selected and contains sub-folders Source, Images, and JS.
- Code Editor:** The file "index.html" is open, displaying the HTML code for the game. The code includes a Bootstrap navbar, a main heading, and a section for displaying the game result (arena). It uses CSS classes like "nav-item", "nav-link", and "card" along with Bootstrap's grid system.
- Terminal:** A terminal window at the bottom shows the command "git add .".
- System Status:** The bottom right corner shows the date (13-09-2021), time (25:11), and battery level (12:32).

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Rock-Paper-Scissors</title>
    <link rel="stylesheet" href="index.css"/>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
          integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN8hoP+VmmDGMN5t9UJ0Z"
          crossorigin="anonymous">
  </head>
  <body>
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
      <span class="navbar-brand">Rock-Paper-Scissors</span>
    </nav>
    <h1>Rock-Paper-Scissors</h1>
    <!-- Game result -->
    <div id="arena">
      <div>
        <p>You: <span id="result"></span></p>
        <span id="human"></span>
        
      </div>
      <div>
        <p>Machine: <span id="machine_result"></span></p>
        <span id="machine"></span>
        
      </div>
    </div>
  </body>

```

File Edit View Navigate Code Refactor Run Tools Git Window Help Web_mobile_programming - index.html

Project Full Requests Favorites Structure

Web mobile programming CSU

index.html index.css index.js input.html input.css

```
<h1>Rock-Paper-Scissors</h1>
  <!-- Game result -->
  <div id="arena">
    <div>
      <p>You: <span id="result"></span></p>
      <span id="human"></span>
      
    </div>
    <div>
      <p>Machine: <span id="machine_result"></span></p>
      <span id="machine"></span>
      
    </div>
  </div>
  <!-- Bottom display buttons -->
  <div id="button">
    <button id="rock">Rock</button>
    <button id="paper">Paper</button>
    <button id="scissors">Scissors</button>
  </div>
<script src="index.js"></script>
</body>
</html>
```

html > body > div#arena > div

P Ge Find TODO Problems Terminal Type here to search Event Log 25:11 CRLF UTF-8 4 spaces main 12:32 73°F ENG 13-09-2021

CSS Code :

File Edit View Navigate Code Refactor Run Tools Git Window Help Web_mobile_programming - index.css

Project Full Requests Favorites Structure

Web mobile programming CSU

index.html index.css index.js input.html input.css

```
h1 {
  text-align: center;
}
p {
  font-size: 50px;
}
span {
  color: #dc143c;
}
#arena {
  display: flex;
  margin: 0 25%;
}
#arena > div {
  width: 50%;
  text-align: center;
  margin-top: 10%;
}
#option {
  transform: scaleX(-1);
}
#button {
  text-align: center;
  margin-top: 10%;
```

1:1 CRLF UTF-8 4 spaces main 12:33 73°F ENG 13-09-2021

The screenshot shows a code editor interface with a dark theme. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, Git, Window, Help, and Web_mobile_programming - index.css. The left sidebar displays a project structure for 'Web_mobile_programming' with subfolders ICP2, ICP3, Source, and Task1. The main editor area contains the following CSS code:

```
text-align: center;
margin-top: 10%;

#option {
    transform: scaleX(-1);
}

#button {
    text-align: center;
    margin-top: 10%;
}

#button > button {
    background: #d3d3d3;
    border: none;
    border-radius: 4px;
    font-size: 30px;
    padding: 8px;
    margin: 0 8px;
}

img {
    height: 20vh;
}
```

JavaScript :

The screenshot shows a code editor interface with a dark theme. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, Git, Window, Help, and Web_mobile_programming - onclick(). The left sidebar displays a project structure for 'Web_mobile_programming' with subfolders ICP2, ICP3, Source, and Task1. The main editor area contains the following JavaScript code:

```
let result = 0;
let machine_result = 0;

const onclick = ({currentTarget}) => {
    // picks a random choice for the machine
    const machine = ["rock", "paper", "scissors"][(Math.floor(Math.random() * 3))];
    document.getElementById('machine_turn').src = `Images/${machine}.jpg`;

    // updates results
    const winsAgainst = {rock: "scissors", paper: "rock", scissors: "paper"};
    const human = currentTarget.id;

    if (human === machine) {
    } else if (winsAgainst[human] === machine) {
        result++;
    } else {
        machine_result++;
    }

    document.getElementById('human_turn').src = `Images/${human}.jpg`;
    document.getElementById('result').innerText = result.toString();
    document.getElementById('machine_result').innerText = machine_result.toString();

    // reset
    setTimeout(handler, 15000);
}

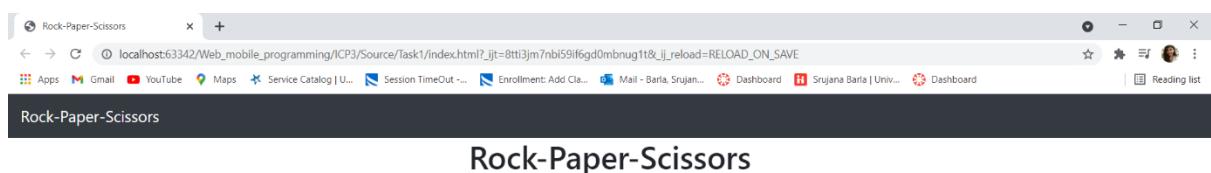
["rock", "paper", "scissors"].forEach(id => document.getElementById(id).addEventListener('click', onclick))
```

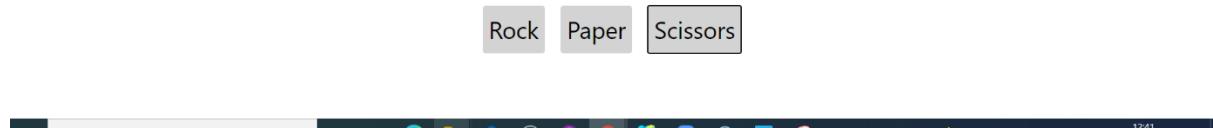
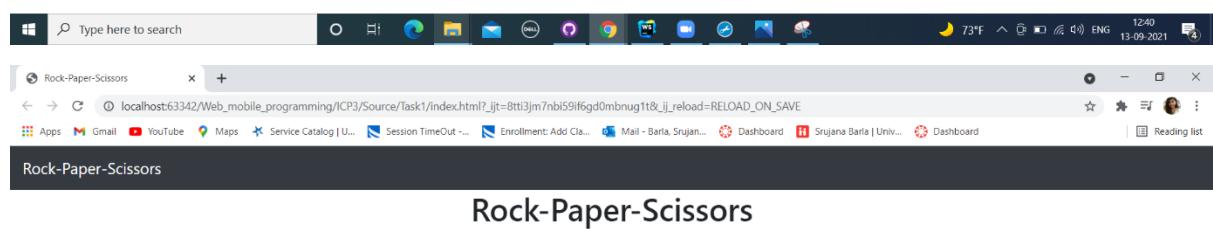
Results of the Task1 :

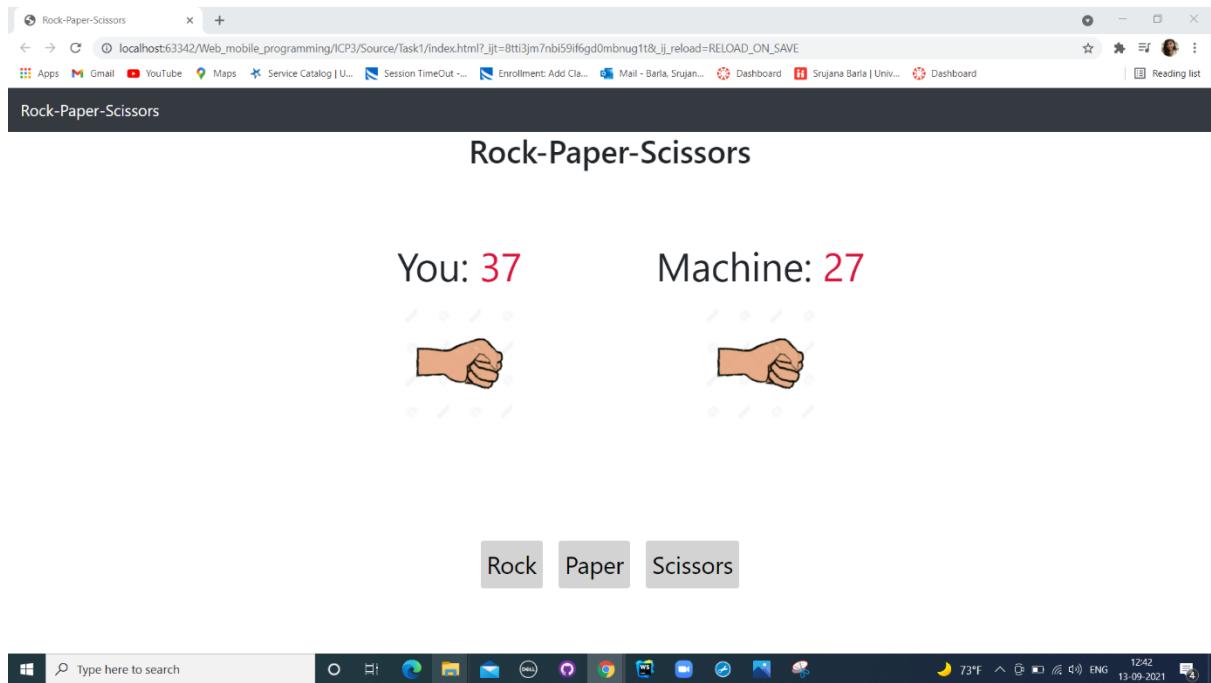
As soon as the web page is opened, below page is opened



When game between Human and the System begins, the scoring is started. Below are the screenshots.







Task2:

2)RWD Task:

This RWD task is to design a mockup page.

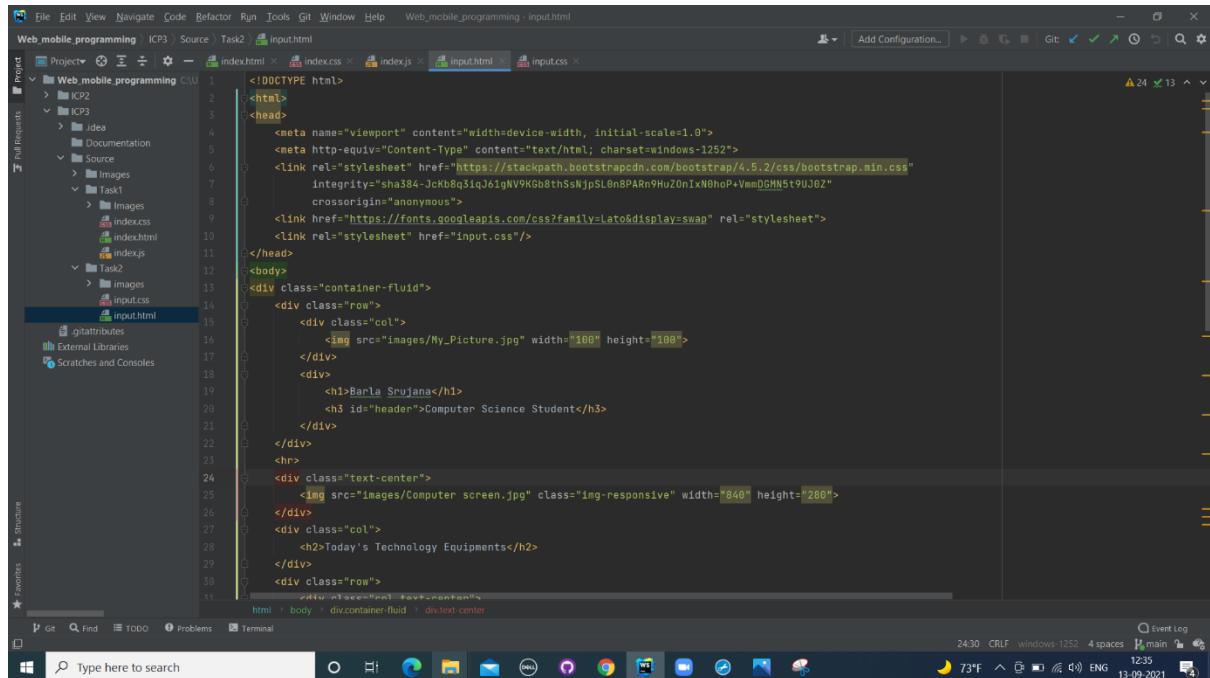
In this we need to use Responsive Web Design. Firstly, all the images are resized and placed in the folders.

1)In this required Responsive Web Design Links are added. Then, name and designation is changed in the necessary fields. Images are also added in the code, which are resulted in the output page.

2)For background styling CSS is used.

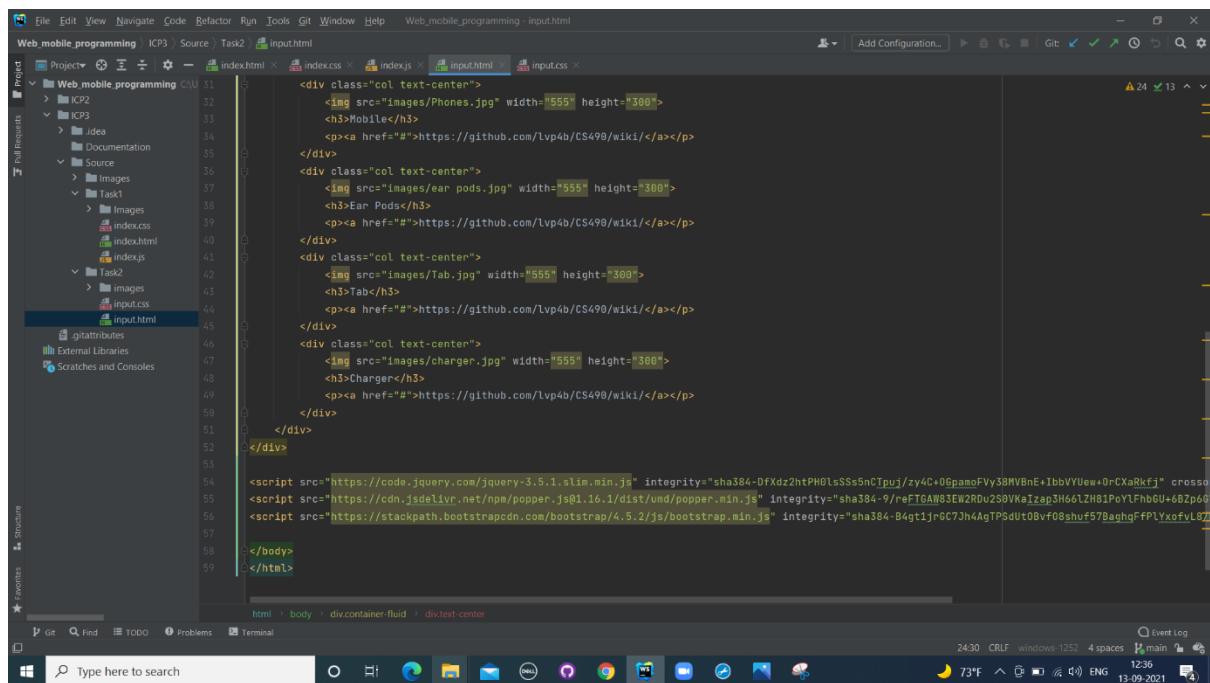
Below are the snapshots of the RWD Task:

HTML Code:



```
<!DOCTYPE html>
<html>
    <head>
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
        <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" integrity="sha384-JcQ2XBd9qjkJdXtjDZIg4LqB0m0EwXqVJ+HcC5IzqN9WZOnIxN0hoP+VmDGNN5t9UJGZ" crossorigin="anonymous">
        <link href="https://fonts.googleapis.com/css?family=Lato&display=swap" rel="stylesheet">
        <link rel="stylesheet" href="input.css"/>
    </head>
    <body>
        <div class="container-fluid">
            <div class="row">
                <div class="col">
                    
                </div>
                <div>
                    <h1>Barla Srujana</h1>
                    <h3 id="header">Computer Science Student</h3>
                </div>
            </div>
            <hr>
            <div class="text-center">
                
            </div>
            <div class="col">
                <h2>Today's Technology Equipments</h2>
            </div>
            <div class="row">
                <div class="col text-center">

```



```
<div class="col text-center">
                
                <h3>Mobile</h3>
                <p><a href="#">https://github.com/lvp4b/CS490/wiki/</a></p>
            </div>
            <div class="col text-center">
                
                <h3>Ear Pods</h3>
                <p><a href="#">https://github.com/lvp4b/CS490/wiki/</a></p>
            </div>
            <div class="col text-center">
                
                <h3>Tab</h3>
                <p><a href="#">https://github.com/lvp4b/CS490/wiki/</a></p>
            </div>
            <div class="col text-center">
                
                <h3>Charger</h3>
                <p><a href="#">https://github.com/lvp4b/CS490/wiki/</a></p>
            </div>
        </div>
    </div>
</body>
</html>
```

CSS Code :

Web mobile programming (ICP3) > Source > Task2 > input.css

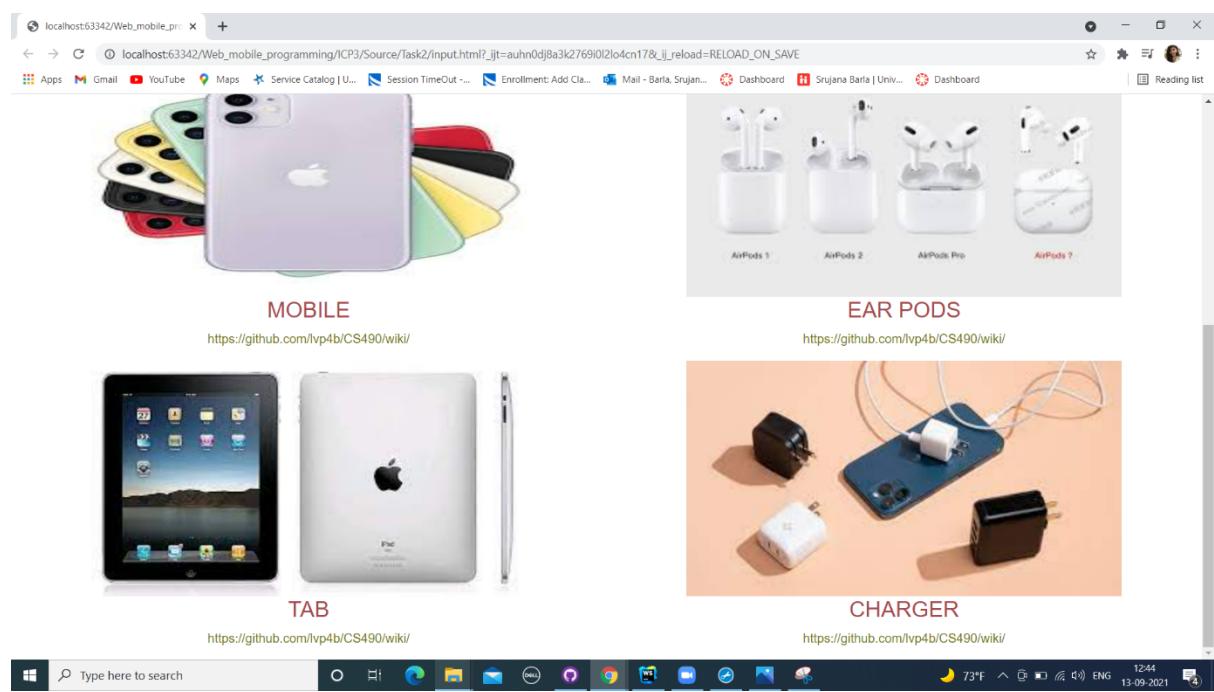
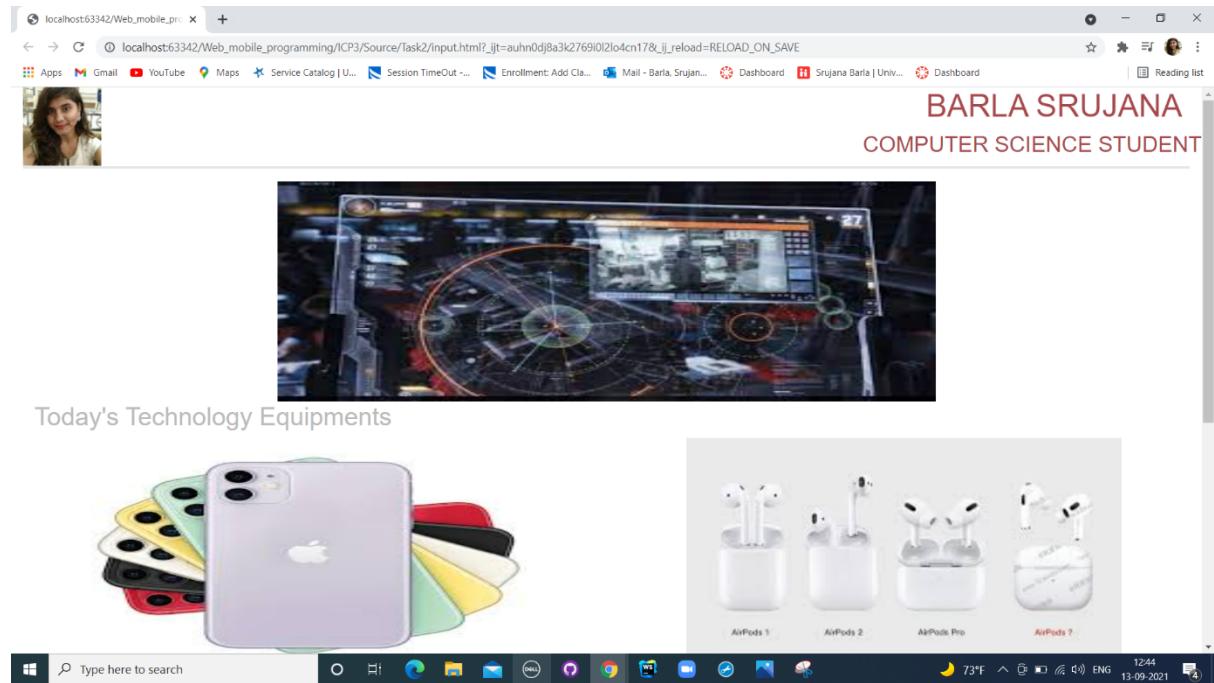
```
body {
    font-family: 'Play', sans-serif;
}
h1 {
    color: #7494c;
    text-transform: uppercase;
    text-align: right;
    padding-right: 25px;
}
h3 {
    color: #7494c;
    text-transform: uppercase;
}
h3s {
    text-align: right;
    padding-right: 15px;
    font-size: 16px;
}
h2 {
    color: #bcbbbb;
}
hr {
    display: block;
    border-width: 3px;
    color: #bcaaaa;
    margin-top: 1px;
}
```

Web mobile programming (ICP3) > Source > Task2 > input.css

```
body {
    text-align: right;
    padding-right: 15px;
    font-size: 16px;
}
h2 {
    color: #bcbbbb;
}
hr {
    display: block;
    border-width: 3px;
    color: #bcaaaa;
    margin-top: 1px;
}
a {
    color: #747704;
}
@media (max-width: 600px) {
    nav, article {
        width: 100%;
        height: auto;
    }
}
```

Results:

When the page is maximised page images are aligned. Then, when page is resized, images are aligned in the centre of the image as shown in the below.



File Edit View Navigate Code Refactor Run Test

localhost:63342/Web_mobile_pro

Project Web mobile programming ICP3 Source Task2

Full Requests

File Edit View Navigate Code Refactor Run Test

localhost:63342/Web_mobile_programming/ICP3/Source/task2/input.html?_jtt=auhn0dj8a3k2769i0l2lo4cn17&ij_rel...

BARLA SRUJANA
COMPUTER SCIENCE STUDENT

Today's Technology Equipments

gitattributes External Libraries Scratches and Consoles

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

html

Type here to search

File Edit View Navigate Code Refactor Run Test

localhost:63342/Web_mobile_pro

Project Web mobile programming ICP3 Source Task2

Full Requests

File Edit View Navigate Code Refactor Run Test

localhost:63342/Web_mobile_programming/ICP3/Source/task2/input.html?_jtt=auhn0dj8a3k2769i0l2lo4cn17&ij_rel...

MOBILE

<https://github.com/lvp4b/CS490/wiki/>

gitattributes External Libraries Scratches and Consoles

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

html

