CSE2015 - INTERNET PROGRAMMING AND WEB TECHNOLOGIES

LAB ACTIVITY - 2

NAME - ABHISHEK AGARWAL REG. NO. - 20BDS0070

Github Repo Link for all assignments -

https://github.com/Abhii-Agarwal09/WinSem2021-22_IWPT_Course _Assignments

QUESTION 1 - Design Template using HTML and CSS

HTML Code -

```
choody>
cmain class="template">
csection class="template-header">
csection class="template-header">
cdiv class="header-main">
coldiv class="header-side-text">Rainy<br/>Poold
class="header-heading">The Daily Rag
cp class="header-side-text">6 A. M.<br/>Poold
class="header-side-text">
coldiv class="header-secondary">
coldiv class="header-secondary">
coldiv class="header-secondary-text">
class="header-secondary-text">
coldiv class="header-secondary-text">
class="header-secondary-text">
coldiv class="header-secondary-text">
class="header-secondary-text">
class="header-secondary-text">
coldiv class="header-secondary-text">
class="header-seconda
```

```
1 <section class="template-main">
                 <h1 class="main-heading">ALIENS INVADE EARTH! <br />TAKE COVER</h1>
                 <div class="main-content">
                    <div class="main-content-text">
                        PRESIDENT DECLARES <br />MARSHAL LAW
                        At midnight a flotilla of Martian space ships was
                           sighted over the the English channel, headed in the
                           sighted heading towards other major cities. Leaders
                        </div>
                    <div class="main-content-image">
                        SAUCERS OVER LONDON
                        <div class="main-image">
                           <img src="./assets/template-image.jpg" alt="template image"/>
                        </div>
                    </div>
                 </div>
             </section>
          </main>
      </body>
   </html>
```

```
margin: 0;
      padding: 0;
   box-sizing: border-box;
6 @font-face {
      font-family: 'Anglican';
   src: local('AnglicanText');
10 body {
      height: 100vh;
11
   display: flex;
12
   justify-content: center;
13
14 align-items: center;
```

```
.template {
        display: flex;
       flex-direction: column;
   max-width: 600px;
       background-color: #f3f3f3;
       padding: 0 0.25rem;
7 }
   .header-main,
    .header-secondary {
        display: flex;
10
        justify-content: space-between;
11
       align-items: center;
12
13
      text-align: center;
14 }
```

```
.main-heading {
        text-align: center;
        font-size: 2.75rem;
        font-style: italic;
        font-family: serif;
        font-weight: 300;
7 }
    .main-content {
        display: flex;
        align-items: center;
10
       text-align: center;
11
   }
12
    .main-content-text {
13
        width: 50%;
14
        border-right: 1px solid black;
15
16 }
```

```
.main-text {
2
       font-size: 1.3rem;
       text-align: justify;
       padding: 0 0.5em;
    }
 5
    .main-content-image {
 6
        width: 50%;
       padding: 0 8px;
8
    }
 9
    .main-image img {
10
       width: 100%;
11
12 }
```

```
.header-heading {
        font-size: 4.25rem;
        font-family: 'Anglican';
        letter-spacing: 4px;
        font-weight: 500;
    .header-side-text {
        font-size: 1.5rem;
        padding: 0.25em;
        border: 1px solid black;
10
   }
11
    .header-secondary {
12
        border-top: 1px solid black;
13
        border-bottom: 1px solid black;
14
       margin: 4px 0;
15
16
```

```
.header-secondary-text {
 1
        font-size: 1.25rem;
   }
    .text-heading {
        font-size: 1.25rem;
        font-weight: bold;
        padding: 4px 0;
   }
    .image-caption {
        font-size: 1.25rem;
10
        font-style: italic;
11
        font-weight: bold;
12
        padding: 4px 0;
13
   }
14
    hr {
15
        width: 50%;
16
        margin: 0 auto;
17
18
```

Rainy Cold





6 A. M.

Vol XXXVII

April 9th, 2012

\$1.00

ALIENS INVADE EARTH! *TAKE COVER*

PRESIDENT DECLARES MARSHAL LAW

At midnight a flotilla of Martian space ships was sighted over the the English channel, headed in the direction of London. Shortly after, flotillas were sighted heading towards other major cities. Leaders from

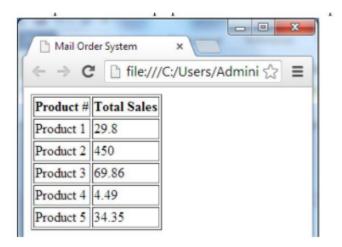
SAUCERS OVER LONDON



QUESTION 2 -

2. A mail-order house sells five different products whose retail prices are as follows: product 1, \$2.98; product 2, \$4.50; product 3, \$9.98; product 4, \$4.49; and product 5, \$6.87. Write a script that reads a series of pairs of numbers as follows: 1. Product number 2. Quantity sold for one day Your program should use a switch statement to determine each product's retail price and should calculate and output HTML that displays the total retail value of all the products sold last week. Use a prompt dialog to obtain the product number and quantity

from the user. Use a sentinel-controlled loop to determine when the program should stop looping and display the final results. If the user inputs an invalid product number a proper alert window shall be displayed.



```
1 <!DOCTYPE html>
  <html lang="en">
       <meta charset="UTF-8" />
       <meta http-equiv="X-UA-Compatible" content="IE=edge" />
       <meta name="viewport" content="width=device-width, initial-scale=1.0" />
       <link rel="stylesheet" href="../styles/ques2_style.css">
       <title>Ques 2 | Sales table
     </head>
     <body>
       <caption>Total Product Wise Sales</caption>
          <thead>
               Product #<br />
               Total Sales<br />
            </thead>
           Product 1<br />
                
             Product 2<br />
                
             Product 3<br />
                
            6nbsp;Product 4<br />
                
             
            <script src="../js/ques2.js"></script>
     </body>
45 </html>
```

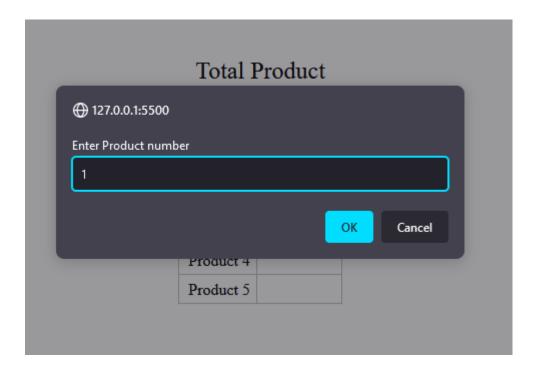
```
margin: 0;
       padding: 0;
       box-sizing: border-box;
6 body {
       height: 100vh;
       align-items: center;
  caption {
       margin: 1rem 0;
  .sales-table {
       border-collapse: collapse;
       padding: 5px;
  .sales-table th {
       border: 1px solid #c0c0c0;
       padding: 5px;
       background: #f0f0f0;
       border: 1px solid #c0c0c0;
       padding: 5px;
```

JAVASCRIPT CODE -

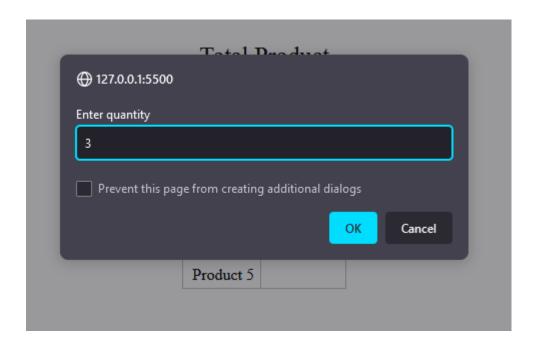
```
• • •
3 const product1TotalInput = document.getElementById('p-1');
4 const product2TotalInput = document.getElementById('p-2');
   const product3TotalInput = document.getElementById('p-3');
6 const product4TotalInput = document.getElementById('p-4');
7 const product5TotalInput = document.getElementById('p-5');
11 let product3TotalPrice = 0;
13 let product5TotalPrice = 0;
           product1TotalInput.innerText = `$ ${product1TotalPrice}`;
           product2TotalInput.innerText = `$ ${product2TotalPrice}`;
           product3TotalInput.innerText = `$ ${product3TotalPrice}`;
           product4TotalInput.innerText = `$ ${product4TotalPrice}`;
           product5TotalInput.innerText = `$ ${product5TotalPrice}`;
       const quantity = Number(prompt('Enter quantity'));
           case 2:
           case 3:
                product4TotalPrice += quantity * 4.49;
           case 5:
               product5TotalPrice += quantity * 6.87;
```

OUTPUT SCREENSHOTS -

First prompt is to specify the product number



Second prompt is to specify the Quantity of the product number which was specified in prompt 1 (above)

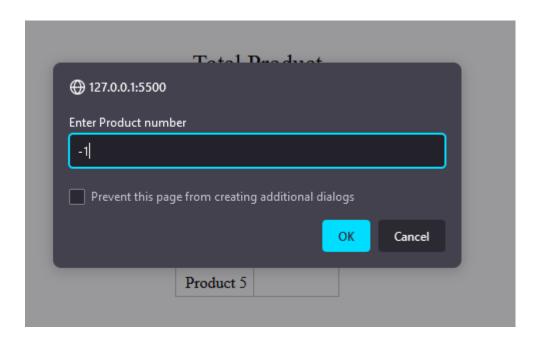


Similarly, I have given inputs for all the products, the output table looks like this

Total Product Wise Sales

Product #	Total Sales
Product 1	\$ 8.94
Product 2	\$9
Product 3	\$ 29.94
Product 4	\$ 17.96
Product 5	\$ 34.35

On giving product number input as -1, the program is terminated by exiting the while loop



QUESTION 3 -

3. Create a web page with an image on it, a paragraph on it, and a button. Now create a script (in your head section) that contains an array of pictures. It should also contain button and function (Next). It displays the picture in the array at that variable number. So it will loop through the pictures in order, and when it gets to the end of the array, it should loop back to the beginning.

Now add another button and another function (Add). This function should allow you to add pictures to your array. The second button on your web page should call this second function.

Make sure that if you add pictures to your array, first function (Next) will work regardless of how many pictures you add.

```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <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">
       <link rel="stylesheet" href="../styles/ques3_style.css">
       <title>Image Carousel</title>
9 </head>
10 <body>
       <div class="carousel-wrapper">
           Image 1
           <div class="carousel-image-container">
               <img id="carousel-image" src="../assets/cat.jpg" alt="carousel image">
           </div>
           <div class="carousel-btn-container">
               <button class="btn" id="next-btn">Next</button>
               <button class="btn" id="add-btn">Add Image/button>
           </div>
       </div>
       <script src="../js/ques3.js"></script>
22 </body>
23 </html>
```

```
margin: 0;
        padding: 0;
        box-sizing: border-box;
   body {
       height: 100vh;
        display: flex;
        justify-content: center;
       align-items: center;
12 button {
        padding: 0.75em 1.5em;
        background-color: #359;
       border: none;
       border-radius: 8px;
        cursor: pointer;
        text-align: center;
       margin: 1.5rem 0;
        font-family: sans-serif;
   .carousel-btn-container {
       display: flex;
        justify-content: center;
        gap: 2rem;
       margin: 1.5rem 0;
   .carousel-image-container {
       width: 100%;
        height: 400px;
38 .carousel-image-container img {
       width: 100%;
       height: 100%;
```

Javascript Code -

```
3 const imageCounter = document.getElementById('image-count');
 4 const carouselImage = document.getElementById('carousel-image');
5 const nextBtn = document.getElementById('next-btn');
6 const addBtn = document.getElementById('add-btn');
8 const imagesArray = ['cat.jpg', 'dog.jpg', 'deer.jpg', 'fox.jpg'];
9 let currentImageIndex = 0;
10 let imagesArrayLength = imagesArray.length;
    const next = (event) \Rightarrow {
        currentImageIndex++;
        const newImageIndex = currentImageIndex % imagesArrayLength;
        carouselImage.src = `../assets/${imagesArray[newImageIndex]}`;
        imageCounter.innerText = `Image ${newImageIndex + 1}`;
    const add = (event) \Rightarrow {
        const newImageName = String(prompt('Enter image name'));
        const newImage = `${newImageName}.jpg`;
        imagesArray.push(newImage);
        imagesArrayLength++;
34 nextBtn.addEventListener('click', next);
35 addBtn.addEventListener('click', add);
```

OUPUT SCREENSHOTS -

The first image is of a cat, I have also maintained an image counter to keep track of number of images

Image 1



On clicking the next button, the next image is displayed from the images array

Image 2



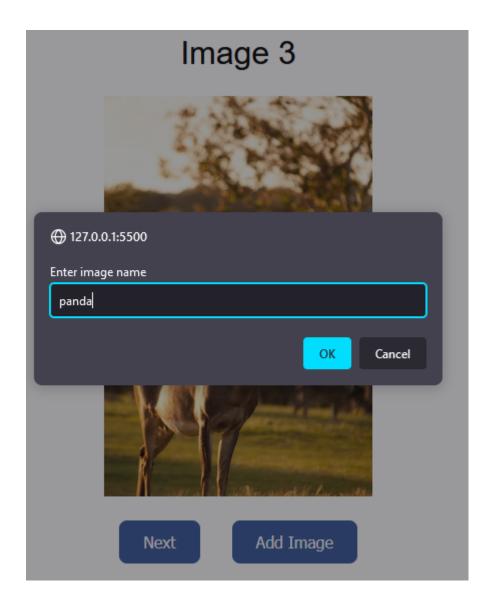
Image 3



Next

Add Image

At this point, I have clicked on Add image button, which will take an image name, and it will add that image to the images array using the push method



We can see that the image of a panda is added to the array and is the last image in the array now

Image 5



Next

Add Image

After the last image, when the next image button is clicked, the first image is again displayed, so that is how it runs in a loop. I have implemented this using mod, i find the remainder and according to that i am displaying the images, so it runs in a loop

Image 1



Next

Add Image