Experiment no:1 DATE:

HTML5

1a) Course Name: HTML5 - The Language

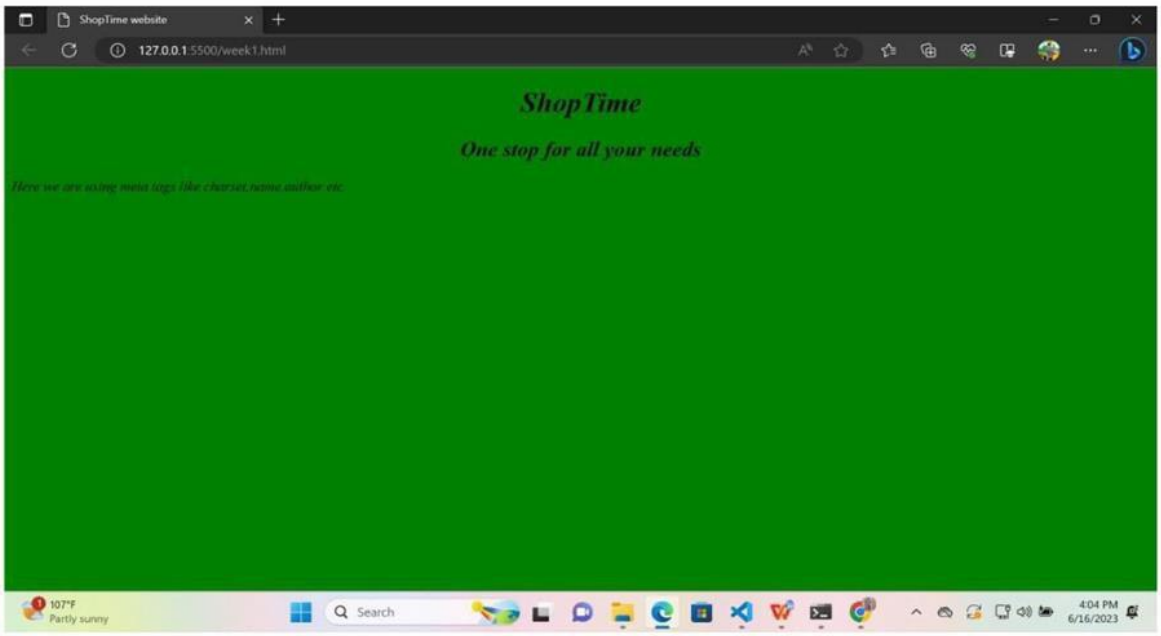
Module Name: Case-insensitivity, Platform Independency, DOCTYPE Declaration, Types of Elements, HTML Elements -Attributes, Metadata Element

Include the Metadata element in Homepage.html for providing description as "IEKart's is an online shopping website that sells goods in retail." This company deals with various categories like Electronics, Clothing, Accessories etc.

Program:

```
<!DOCTYPE HTML>
<head>
<title>Shop Time website</title>
<metacharset="UTF-8">
<metaname="description"content="Shop Time is an online
shopping website that sells goods in retail. This company deals with
various categories like Electronics, Clothing, Accessories etc">
<meta name="keywords" content="clothing, footwear, shopping">
<meta name="author"content="Myself">
<metaname="viewport" content="width=device-width, initial-
scale=1.0"> </Head>
<bodybgcolor="green">
<h1 align="center"><i>Shop Time<i></h1>
<h2 align="center"><i>One stop for all your needs<i></h2>
<p>Here we are using meta tags like charset, name, author
etc.</p> </body></html>
```

output:


ShopTime website
127.0.0.1:5500/week1.html
ShopTime
One stop for all your needs
Here we are using meta tags like charset,name,author etc
107°F
Partly sunny
Search
4:04 PM
6/16/2023

1b) Course Name: HTML5 - The Language

Module Name: Sectioning Elements

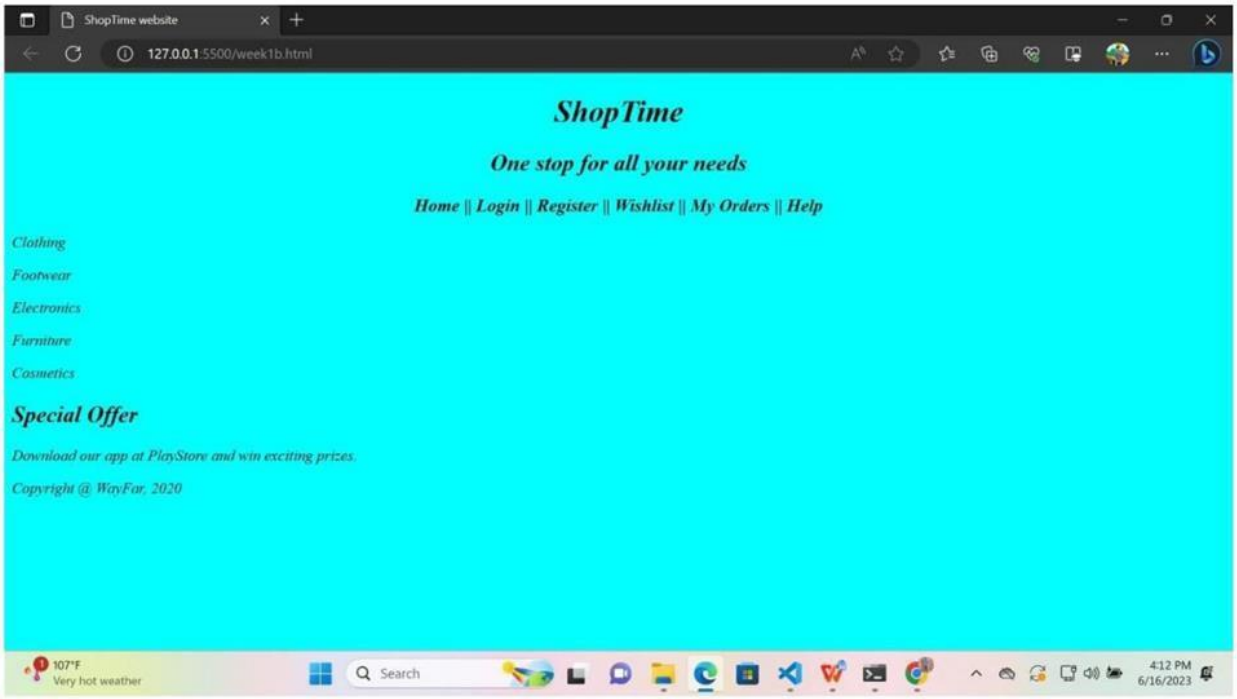
Enhance the Homepage.html of IEKart's Shopping Application by adding appropriate sectioning elements.

Program:

```
<!DOCTYPE HTML>
<head>
<title>ShopTime website</title>
</Head>
<bodybgcolor="cyan">
<h1 align="center"><i>Shop Time<i></h1>
<h2 align="center"><i>One stop for all your
needs<i></h2> <nav align="center"><h3>
                Home || Login || Register || Wishlist || My Orders || Help</h3></nav>
<main>
<section>
<p>Clothing</p>
</section>
<section>
<p>Footwear</p>
</section>
<section>
<p>Electronics</p>
</section>
<section>
<p>Furniture</p>
</section>
<section>
<p>Cosmetics</p>
</section>
</main>
<article>
```

```
<h1>Special Offer</h1>
<aside>
<p>Download our app at PlayStore and win exciting prizes.</p></aside>
</article><header>
</body>

<footer>
    Copyright @ WayFar, 2020
</footer>
</html>
```

Output:


ShopTime website
127.0.0.1:5500/week1b.html
ShopTime
One stop for all your needs
Home || Login || Register || Wishlist || My Orders || Help
Clothing
Footwear
Electronics
Furniture
Cosmetics
Special Offer
Download our app at PlayStore and win exciting prizes.
Copyright @ WayFar, 2020
107°F
Very hot weather
Search
4:12 PM
6/16/2023

1c) Course Name: HTML5 - The Language

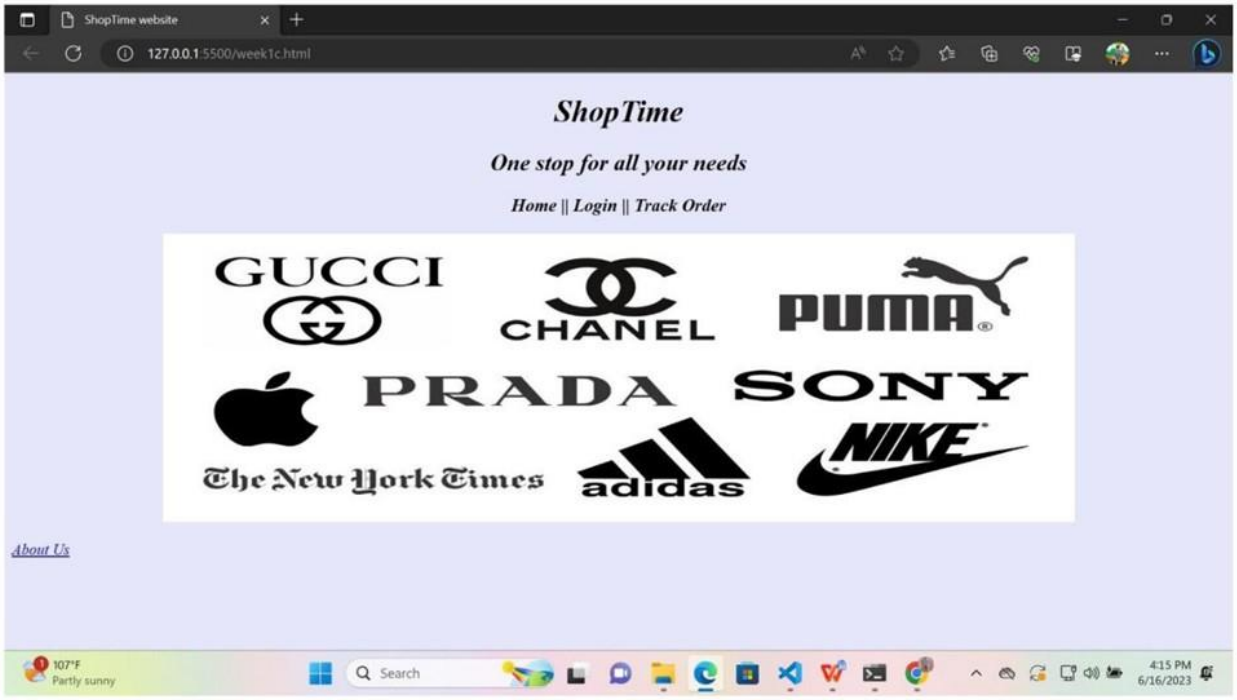
Module Name: Paragraph Element, Division and Span Elements, List Element

Make use of appropriate grouping elements such as list items to "About Us" page of IEKart's Shopping Application.

Program:

```
<!DOCTYPE HTML>
<head>
<title>ShopTime website</title>
</Head>
<bodybgcolor="lavender">
<h1 align="center"><i>ShopTime<i></h1>
<h2 align="center"><i>One stop for all your
needs<i></h2> <nav align="center"><h3>
            Home || Login || Track Order </h3>
</nav>
   <center>
<p><img
src="https://www.logomaker.com/wp-content/uploads/2018/01/FLS-Blog-Black-
Logos_Hero.jpg"alt="Top shopping brands"width="950"height="300"</p>
   </center>
</body>
<footer>
<a href=aboutus.html">About Us</a>
</footer>
</html>
```

Output:



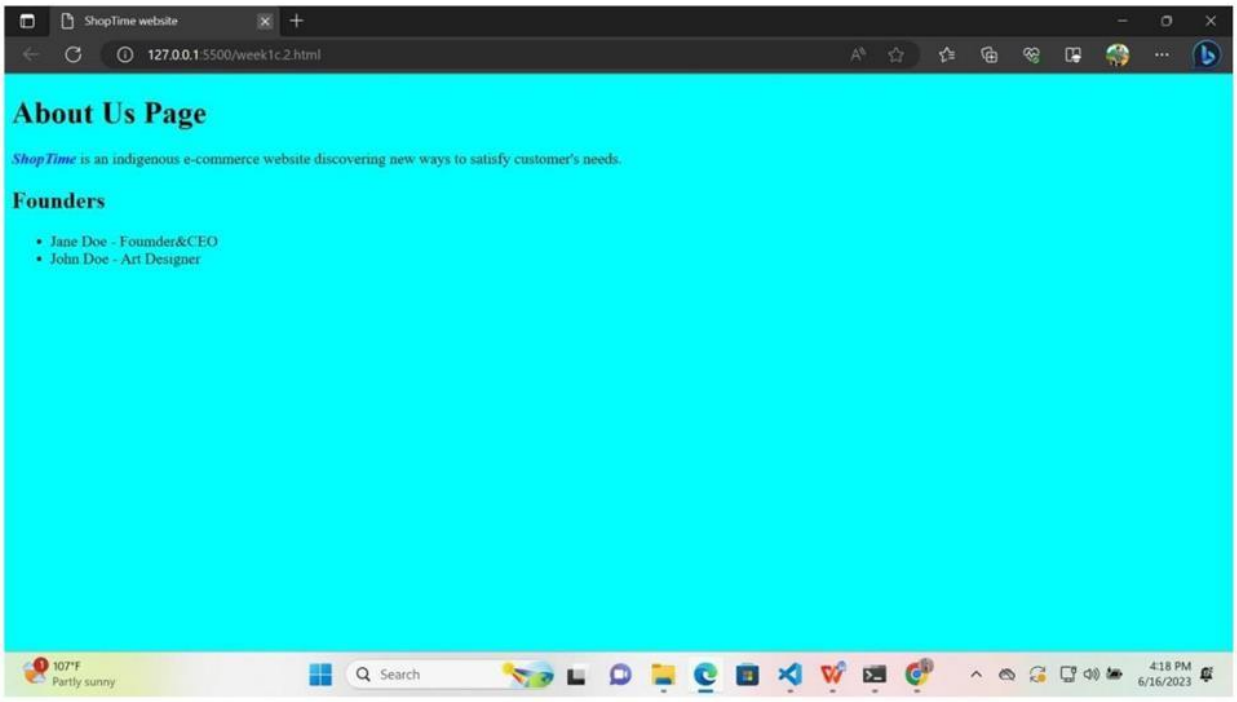
Aboutus.html

Program:

```
<!DOCTYPE HTML>
<html>
<head>
<title>ShopTime website</title>
<metaname="viewport" content="width=device-width, initial-
scale=1"> </Head>
<bodybgcolor="cyan">
<div class="about-section">
<h1>About Us Page</h1>
<p><span style="color:blue;font-weight:bold"><i>ShopTime</i></span> is an
indigenous e-commerce website discovering new ways to satisfy customer's
needs.</p></div>
<h2>Founders</h2>
<ul>
```

```
<li>Jane Doe - Foumder&CEO</li>
<li>John Doe - Art Designer</li>
</ul>
</body>
</html>
```

Output:



1e) Course Name: HTML5 - The Language

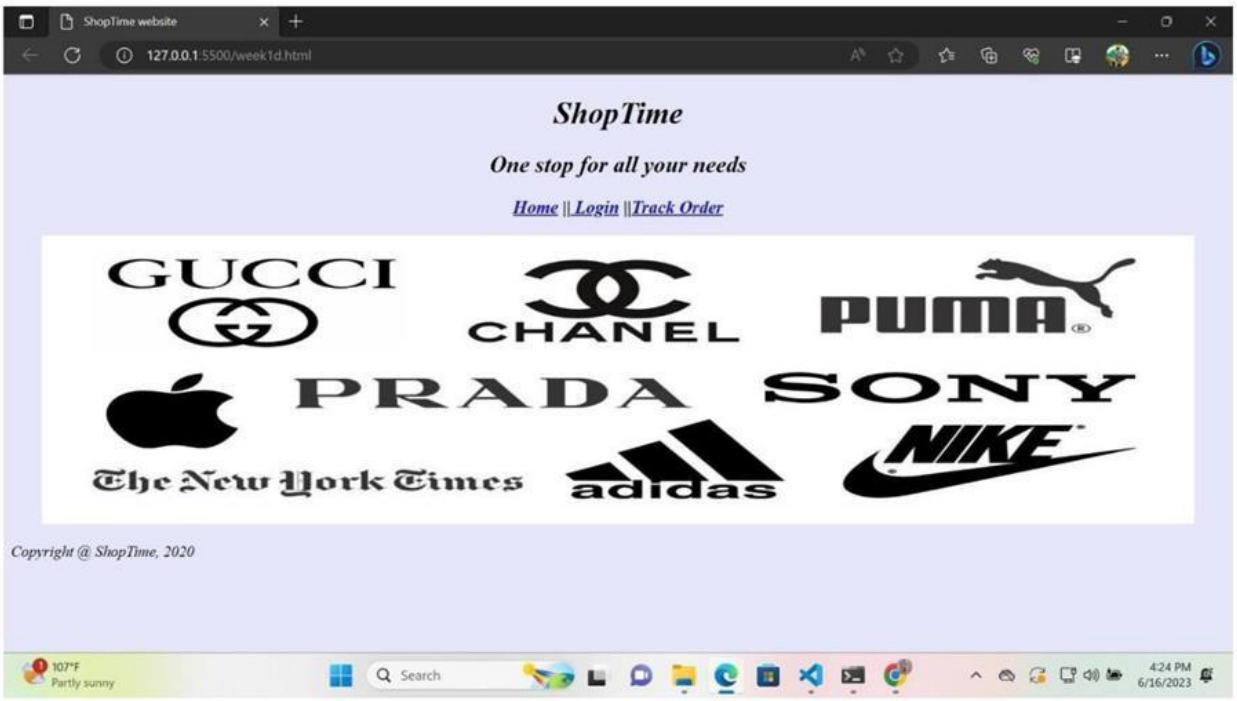
Module Name: Link Element

Link “Login”, “SignUp”and “Track order”to “Login.html”,“SignUp.html”and “Track.html”page respectively. Bookmark each category to its details of IEKart’s Shopping application.

Program:-

```
<!DOCTYPE HTML>
<head>
<title>ShopTime website</title>
<metacharset="UTF-8">
<meta name="description" content="ShopTime is an online shopping website that sellsgoods in retail. This company deals with various categories like Electronics, Clothing, Accessories etc"> <metaname="keywords" content="clothing,footwear,shopping">
<metaname="author"content="Myself">
<metaname="viewport" content="width=device-width, initial-scale=1.0"> </Head>
<bodybgcolor="lavender">
<h1 align="center"><i>ShopTime<i></h1>
<h2 align="center"><i>One stop for all your needs<i></h2> <nav align="center"><h3>
<a href=”home.html”>Home</a> ||<ahref=”login.html”> Login</a> ||<ahref=”trackorder.html”>Track Order</a></h3> </nav>

        <center>
<p><imgsrc="FLS-Blog-Black-Logos_Hero.jpg" alt="Top shopping brands" width="1200"height="300"</p>
        </center>
</body>
<footer>
   Copyright @ ShopTime, 2020
</footer></html>
```

Output:


ShopTime website
127.0.0.1:5500/week1d.html
ShopTime
One stop for all your needs
Home || Login || Track Order
GUCCI
CHANEL
PUMA
PRADA
SONY
The New York Times
adidas
NIKE
Copyright @ ShopTime, 2020
107°F
Partly sunny
Search
4:24 PM
6/16/2023

Experiment no:2 **Date:**

HTML5

2a) Course Name: HTML5 - The Language

Module Name: Creating Table Elements, Table Elements : Colspan / Rowspan Attributes, border, cellspacing, cellpadding attributes

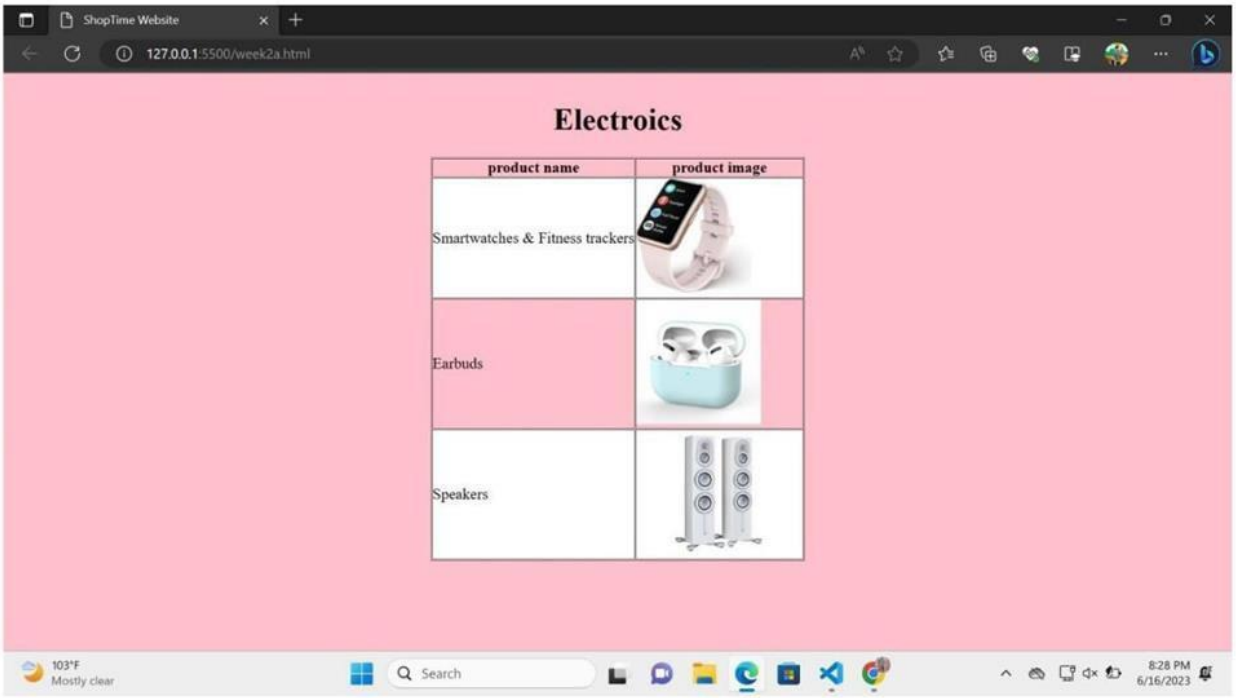
Enhance the details page of IEKart's Shopping application by adding a table element to display the available mobile/any inventories.

program:

```
<!DOCTYPE html>
<html>
   <head>
      <title>ShopTime Website</title>
   </head>
   <bodybgcolor="pink">
      <tableCellspacing="1" Cellpadding="0"border="1"align="center">
         <caption><h1>Electroics</h1></caption>
         <tr>
            <th>
               product name
            </th>
            <th>
               product image
            </th>
         </tr>
         <trbgcolor="white"><td>Smartwatches & Fitness trackers</td><td><img
src="https://consumer.huawei.com/content/dam/huawei-cbg-site/common/mkt/pdp/wear
ables/watch-fit/dynamic/watch-fit/img/pc/huawei-watch-fit-personal-assistant-3.jpg"width =
"120px"height = "120px"alt="Smartwatches"></td></tr>
<tr><td>Earbuds</td><td><img
src="https://i.pinimg.com/originals/db/96/6c/db966cbb958a6c398e4e099f423ffb56.jpg" width
="130px"height = "130px"alt="Earbuds"></td></tr>
<trbgcolor="white"><td>Speakers</td><td><imgsrc="ma_platinum_200_iso_white.jpg"width
= "130px"height = "130px"alt="Speakers"></td></tr>
```

```
        </table>
    </body>
</html>
```

output:



2b) Course Name: HTML5 The Language

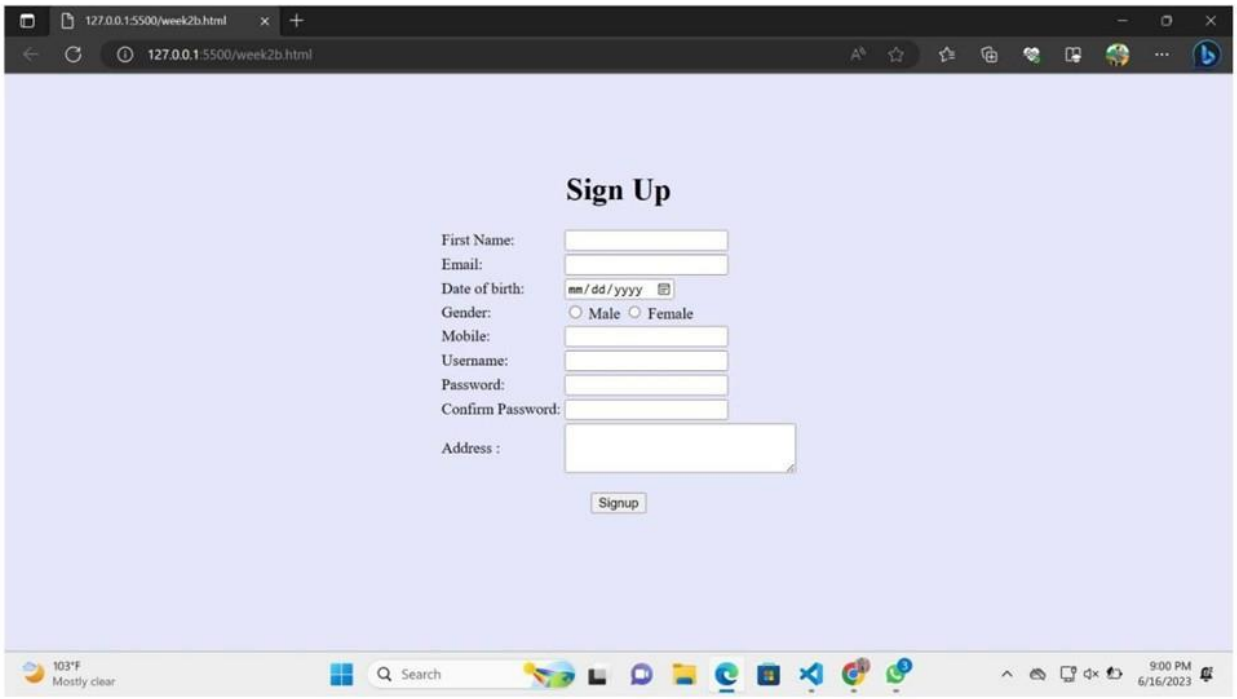
Module Name: Creating Form Elements, Color and Date Pickers, Select and Data list Elements

Using the form elements create Signup page for IEKart's Shopping application.

Program:-

```
<html>
<bodybgcolor="lavender">
<form align="center">
<tablealign=center>
<caption><h1>Sign Up</h1></caption>
<tr><td><label>First Name:</label></td><td><input type="text"></td><br>
<tr><td><label>Email:</label></td><td><input  type="email"><br>
<tr><td><label>Date of birth:</label></td><td><input type="date"></td>
<tr><td><label>Gender: </label><td><input type="radio"name="gender"
value="Male">Male <input type="radio"name="gender"value="Female">Female</td><br>
<tr><td><label>Mobile:</label></td><td><input  type="number"><br>
<tr><td><label>Username:</label></td><td><input  type="text"><br>
<tr><td><label>Password:</label></td><td><input type="password"><br>
<tr><td><label>Confirm Password:</label></td><td><input type="password" ><br>
<trrowspan="3"><td><label>Address :<br></label></td><td><textarea rows="3"
cols="30" ></textarea></td></tr><br><br>
</table>
<br><button type="submit">Signup</button>
</form>
</body>
</html>
```

Output:


127.0.0.1:5500/week2b.html
Sign Up
First Name:
Email:
Date of birth:
mm/dd/yyyy
Gender:
Male
Female
Mobile:
Username:
Password:
Confirm Password:
Address :
Signup
103°F
Mostly clear
Search
9:00 PM
6/16/2023

2c) Course Name: HTML5 The Language

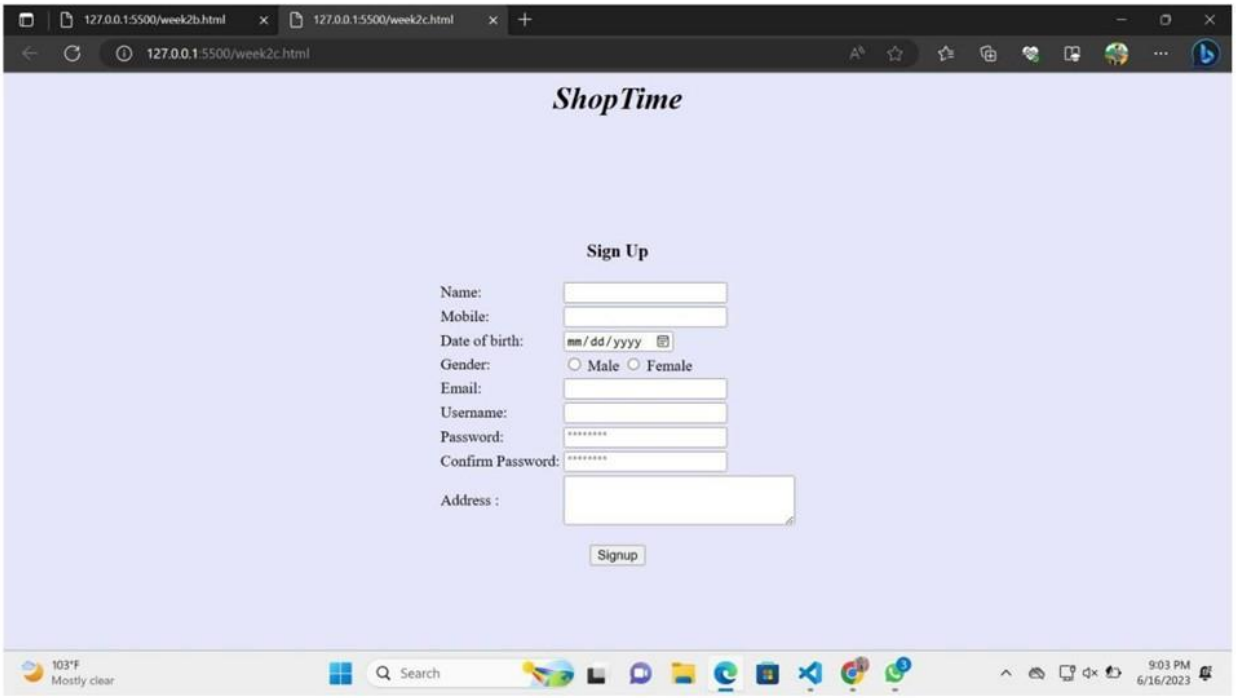
Module Name: Input Elements -Attributes

Enhance Signup page functionality of IEKart's Shopping application by adding attributes to input elements.

Program:

```
<html>
<bodybgcolor="lavender">
<form align="center">
<tablealign=center>
<h1 align="center"><i>ShopTime</i></h1>
<caption><h3>Sign Up</h3></caption>
<tr><td><label>Name:</label></td><td><input  type="text"></td><br>
<tr><td><label>Mobile:</label></td><td><input type="number"
autocomplete="on"></td><br>
<tr><td><label>Date of birth:</label></td><td><input type="date"></td>
<tr><td><label>Gender:</label><td><inputtype="radio"  name="gender"  value="Male">Male
<input type="radio"name="gender"value="Female"> Female</td><br>
<tr><td><label>Email:</label></td><td><input  type="email"><br>
<tr><td><label>Username:</label></td><td><input type="text"pattern="[A-Za-z]+"
maxlength="20"minlength="9"><br>
<tr><td><label>Password:</label></td><td><input type="password"
placeholder="********"><br>
<tr><td><label>Confirm Password:</label></td><td><input type="password"
placeholder="********"><br>
<trrowspan="3"><td><label>Address :<br></label></td><td><textarea rows="3"
cols="30"spellcheck="true" ></textarea></td></tr><br><br> </table>

<br><button type="submit">Signup</button>
</form>
</body>
</html>
```

Output:


127.0.0.1:5500/week2b.html
127.0.0.1:5500/week2c.html
127.0.0.1:5500/week2c.html
ShopTime
Sign Up
Name:
Mobile:
Date of birth:
mm/dd/yyyy
Gender:
Male
Female
Email:
Username:
Password:
Confirm Password:
Address :
Signup
103°F
Mostly clear
Search
9:03 PM
6/16/2023

2d) Course Name: HTML5 The Language

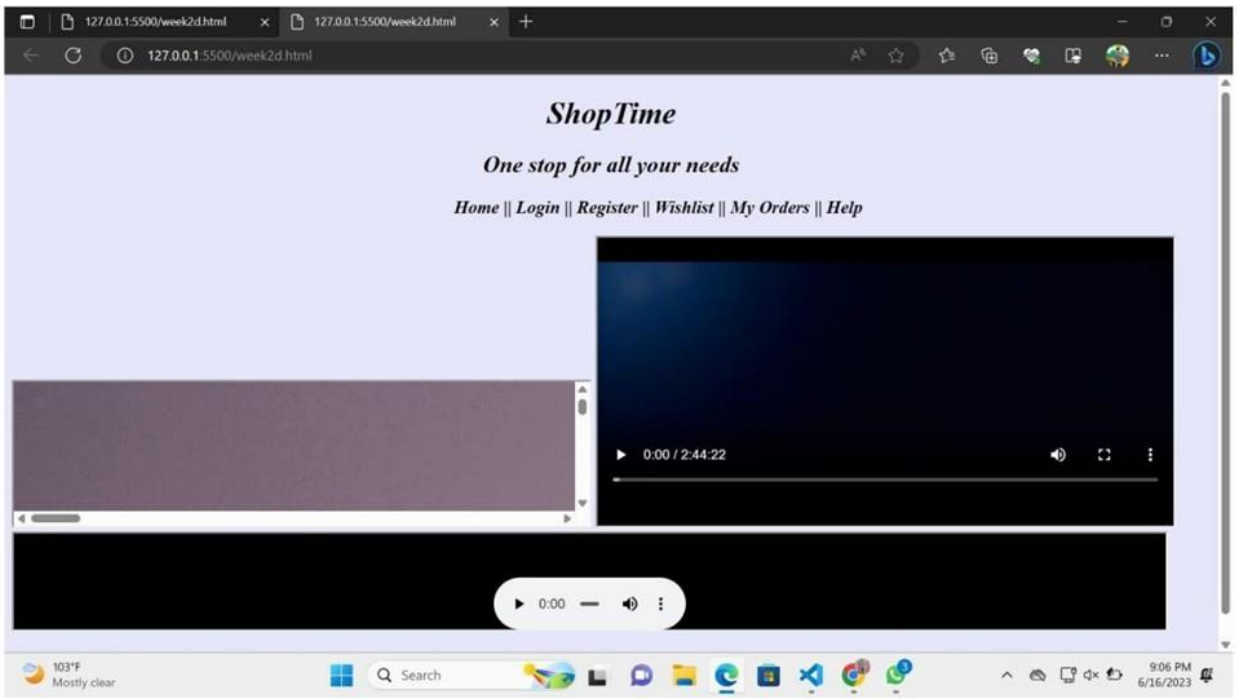
Module Name: Media, Iframe

Add media content in a frame using audio, video, iframe elements to the Home page of IEKart's Shopping application.

Program:

```
<!DOCTYPE html>
<html>
<bodybgcolor="lavender">
<h1 align="center"><i>ShopTime<i></h1>
<h2 align="center"><i>One stop for all your
needs<i></h2> <header>
<nav align="center"><h3>
                Home || Login || Register || Wishlist || My Orders || Help</h3>
</nav>
<center>
</header>
<p>
<iframesrc="giri.jpg"name="iframe_1 height="600"width="600"
title="Iframe Example"></iframe>

<iframesrc="Vaarasudu.mp4"name="iframe_2" height="300"width="600"title="Iframe
Example"></iframe>

<iframesrc="Rolex Bgm.mp3" name="iframe_3" height="100"width="1200"
title="Iframe Example"></iframe></p>
</body>
<footer>
   Copyright @ ShopTime, 2020.
</footer>
</html>
```

Output:


127.0.0.1:5500/week2d.html
127.0.0.1:5500/week2d.html
127.0.0.1:5500/week2d.html
ShopTime
One stop for all your needs
Home || Login || Register || Wishlist || My Orders || Help
0:00 / 2:44:22
0:00
103°F
Mostly clear
Search
9:06 PM
6/16/2023

Experiment no:3 **Date:**

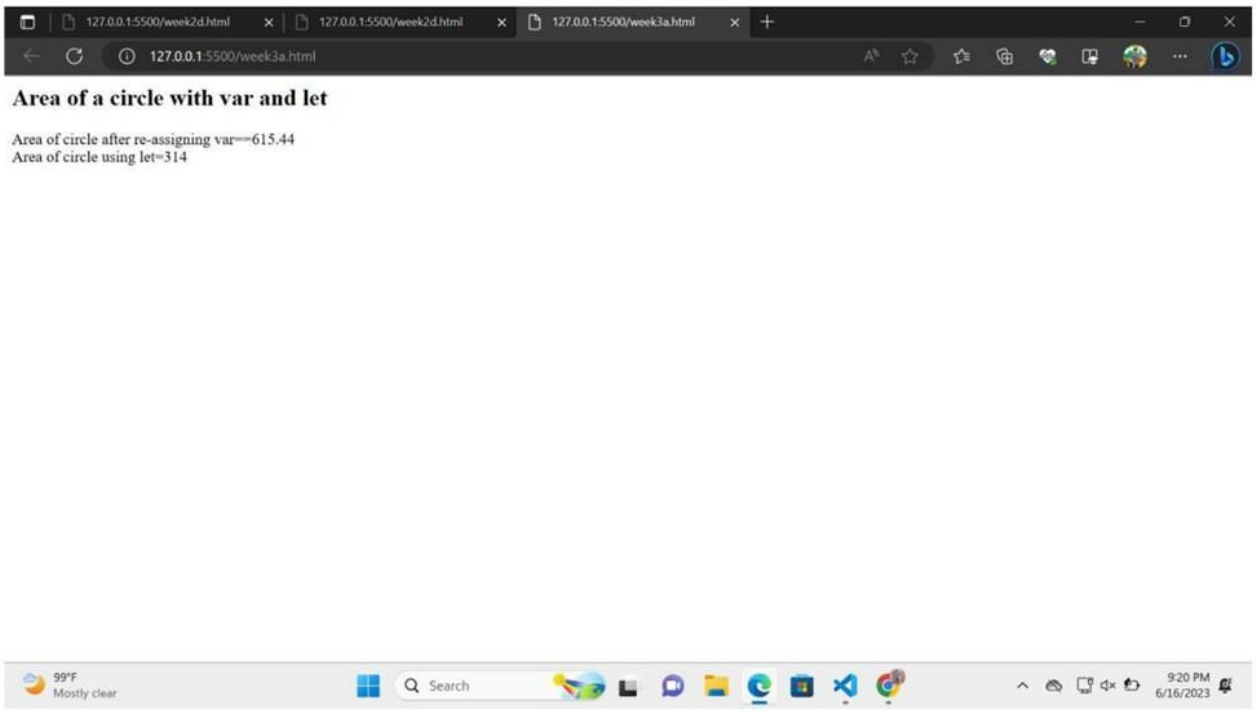
Java script

3.a Course Name: Javascript
Module Name: Type of Identifiers
Write a JavaScript program to find the area of a circle using radius (var and let-reassign and observe thedifference with var and let) and PI (const).

Program:

```
<html>
<body>
<h2>Area of a circle with var and let</h2>
<script
src="week.js"></script>

</body>
</html>
```

Output:



3b) Course Name: Javascript

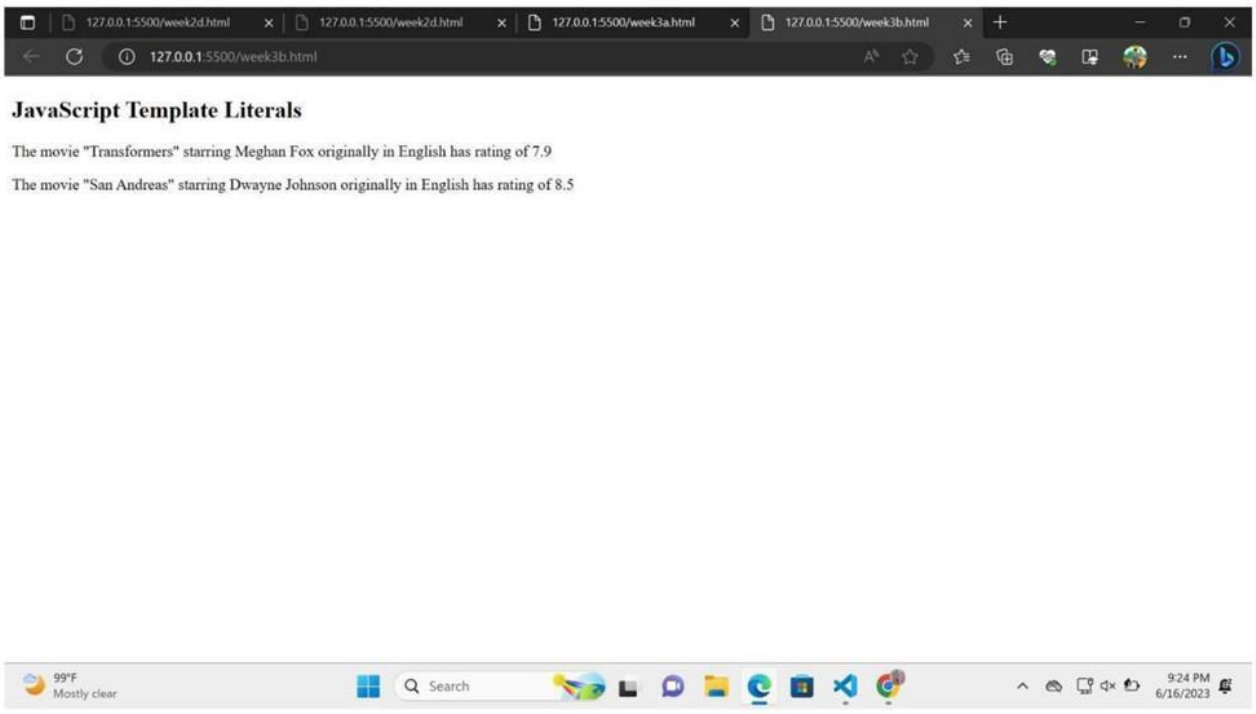
Module Name: Primitive and Non Primitive Data Types

Write JavaScript code to display the movie details such as 2 movie name, starring, language, and ratings. Initialize the variables with values of appropriate types.Use template literals wherever necessary.

Program:

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript Template Literals</h2>
<p id="demo"></p>
<p id="demo1"></p>
<script
   src="weekq.js"></script>
</body>
</html>
```

Output:



3c) Course Name: Javascript

Module Name: Operators and Types of Operators

Write JavaScript code to book movie tickets online and calculate the total price, considering the number of tickets and price per ticket as Rs. 150. Also, apply a festive season discount of 10% and calculate the discounted amount

Program:

```
<!DOCTYPE html>
<html>
<head>
</head>
<bodystyle = "text-align: center; font-size:
   20px;"> <h1>Online seats reservation </h1>
   Enter the number of seats: <input id="number">
   <br><br>
   <button onclick = "m()">Pay only</button>
   <p id="res"></p>
   <script
      src="function.js"></script>

</body>
</html>
```

Output:

Online seats reservation

Enter the number of seats: 4

Pay only

The total price is 4 is: 540

Online seats reservation

Enter the number of seats: 4

Pay only

The total price is 4 is: 540

3d) Course Name: Javascript

Module Name: Types of Statements, Non -Conditional Statements, Types of Conditional Statements, if Statements,switch Statements

Write a JavaScript code to book movie tickets online and calculate the total price based on the 3 conditions

(a) If seats to be booked are not more than 2, the cost per ticket remains Rs. 150.

(b) If seats are 6 or more, booking is not allowed.

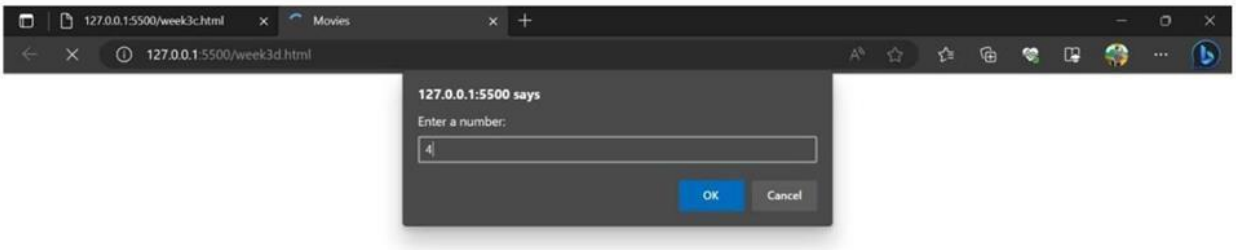
(c) If seats to be booked are more than 2 but less than 6, based on the number of seats booked, do the following - Calculate total cost by applying discounts of3, 5, 7, 9, 11 percent, and so on for customer 1,2,3,4 and 5. Try the code with different values for the number of seats

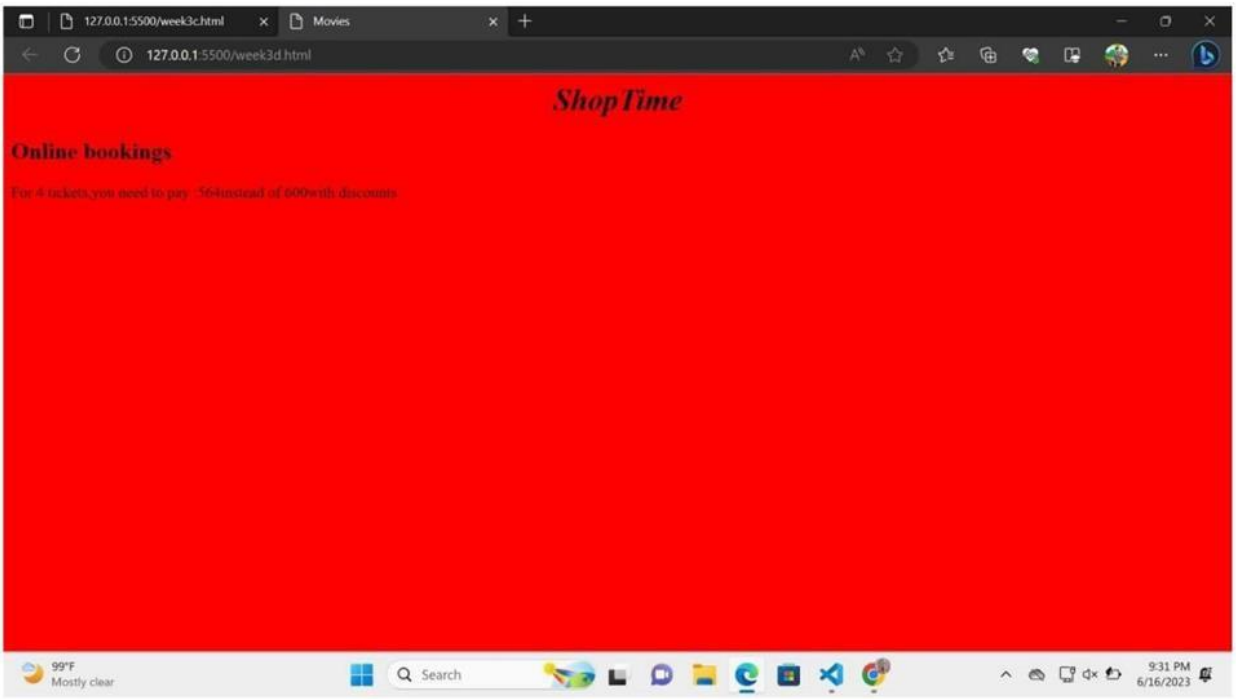
Program:

```
<html>
<head>
<title>Movies</title>
</head>
<bodybgcolor="red">
<h1 align="center"><i>ShopTime</i></h1>
<h2>Online bookings</h2>
<script bgcolor="white">
n=window.prompt("Enter a number:");
if(n<=2)
{
   tcost=n*150
   document.write("For n tickets,you need to pay :",tcost);
 }
else if(n>=6)
{
   document.write("Bookings are not Allowed");
 }
else
{
       if(n==3)
       {
       t1=150-(150*(3/100));
```

```
        t2=150-(150*(5/100));
        t3=150-(150*(7/100));
        tcost=t1+t2+t3;
        document.write("For 3 tickets,you need to pay :",tcost,"instead of ",(150*3),"with
discounts");
    }
    else if(n==4)
        {
        t1=150-(150*(3/100));
        t2=150-(150*(5/100));
        t3=150-(150*(7/100));
        t4=150-(150*(9/100));
        tcost=t1+t2+t3+t4;
        document.write("For 4 tickets,you need to pay :",tcost,"instead of ",(150*4),"with
discounts");
    }
     else
        {
    t1=150-(150*(3/100));
        t2=150-(150*(5/100));
        t3=150-(150*(7/100));
        t4=150-(150*(9/100));
        t5=150-(150*(11/100));
        tcost=t1+t2+t3+t4+t5;
        document.write("For 5 tickets,you need to pay :",tcost,"instead of ",(150*5),"with
discounts");
    }
 }
</script>
</body>
</html>
```

Output:





Mean Stack Technologis

1D). Course Name: Javascript

Module Name: Types of Loops

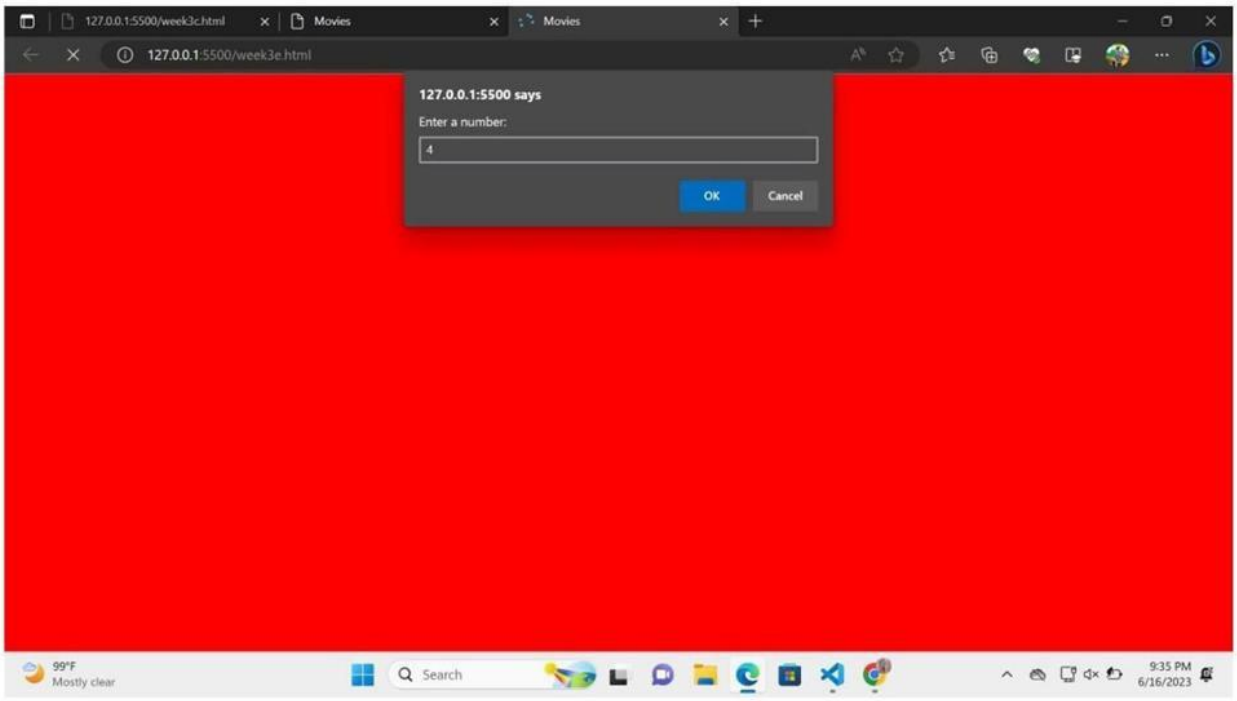
Write a JavaScript code to book movie tickets online and calculate the total price based on the3 conditions: (a) If seats to be booked are not more than 2, the cost per ticket remains Rs. 150. (b) If seats are 6 or more, booking is not allowed. (c) If seats to be booked aremore than 2 but less than 6, based on the number of seats booked, do the following - Calculate total cost by applying a discount of 3, 5, 7, 9, 11 percent, and so on for customers till 5 respectively. Try the code with different values for the number of seats. implement the problem statement using“for”loop, “while”loop and “do-while”loop.

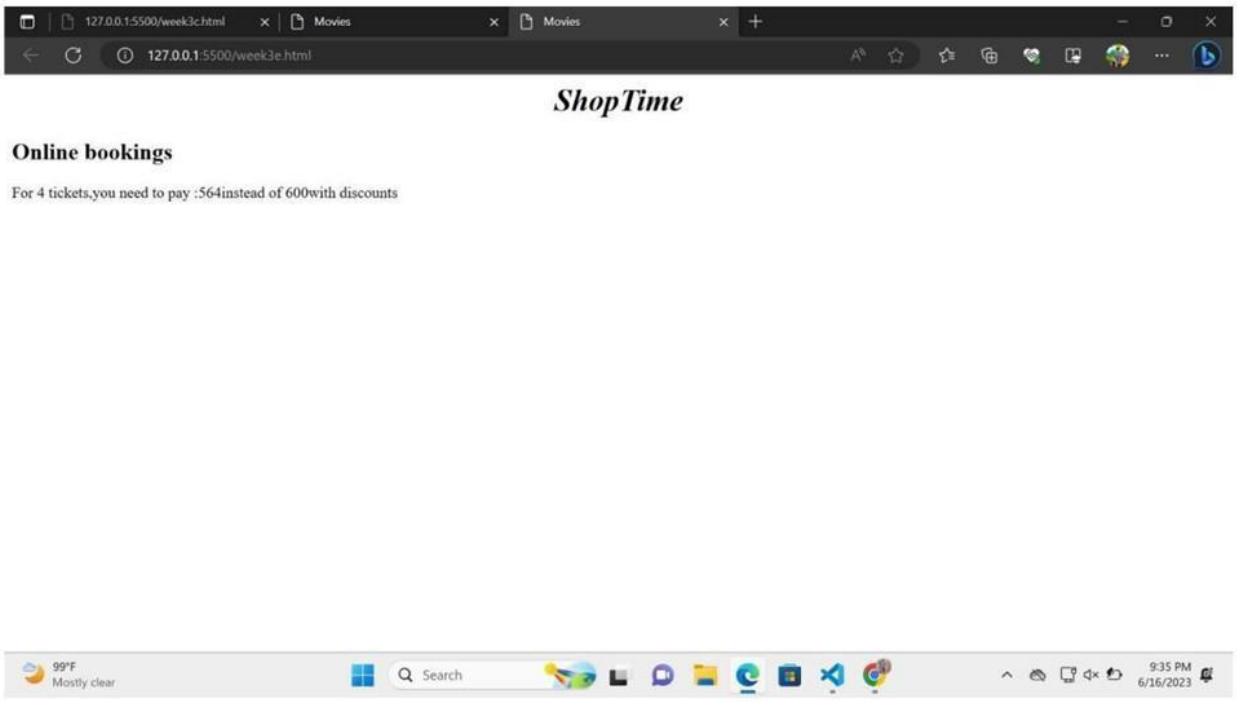
Program:-

```
<html>
<head>
<title>Movies</title>
</head>
<bodybgcolor="white">
<h1 align="center"><i>ShopTime</i></h1>
<h2>Online bookings</h2>
<script bgcolor="lavender">
n=window.prompt("Enter a number:");
if(n<=2)
{
   tcost=n*150
   document.write("For n tickets,you need to pay :",tcost);
 }
else if(n>=6)
{
   document.write("Bookings are not Allowed");
 }
else
{
       if(n==3)
       {
       t1=150-(150*(3/100));
       t2=150-(150*(5/100));
```

```
        t3=150-(150*(7/100));
        tcost=t1+t2+t3;
        document.write("For 3 tickets,you need to pay :",tcost,"instead of ",(150*3),"with
discounts");
    }
    else if(n==4)
        {
        t1=150-(150*(3/100));
        t2=150-(150*(5/100));
        t3=150-(150*(7/100));
        t4=150-(150*(9/100));
        tcost=t1+t2+t3+t4;
        document.write("For 4 tickets,you need to pay :",tcost,"instead of ",(150*4),"with
discounts");
    }
     else
        {
    t1=150-(150*(3/100));
        t2=150-(150*(5/100));
        t3=150-(150*(7/100));
        t4=150-(150*(9/100));
        t5=150-(150*(11/100));
        tcost=t1+t2+t3+t4+t5;
        document.write("For 5 tickets,you need to pay :",tcost,"instead of ",(150*5),"with
discounts");
    }
 }
</script>
</body>
</html>
```

Output:


127.0.0.1:5500/week3c.html
Movies
Movies
127.0.0.1:5500/week3e.html
127.0.0.1:5500 says
Enter a number:
4
OK
Cancel
99°F
Mostly clear
Search
9:35 PM
6/16/2023


127.0.0.1:5500/week3c.html
Movies
Movies
127.0.0.1:5500/week3e.html
ShopTime
Online bookings
For 4 tickets,you need to pay :564instead of 600with discounts
99°F
Mostly clear
Search
9:35 PM
6/16/2023

Experiment No:4 **Date:**

JAVA SCRIPT

Course Name: Java script

Module Name: Types of Functions, Declaringand Invoking Function, Arrow Function, Function Parameters, Nested Function, Built-in Functions, Variable Scope in Functions

Write a JavaScript code to book movie tickets online and calculate the total pricebased on the 3 conditions:

(a) If seats to be booked are not more than 2, the cost per ticket remainsRs. 150.

(b) If seats are 6 or more, booking is not allowed.

(c) If seats to be booked are more than 2 but less than 6, based on the number of seats booked, do the following - Calculate total cost by applying a discount of 3, 5, 7, 9, 11 percent, and so on for customers till 5respectively. Try the code with different values for the number of seats. Write the following custom functions to implement given requirements:

i. calculateCost(seats): Calculate and display the total cost to be paidby the customer for the tickets they have bought.

ii. calculateDiscount(seats): Calculate discount on the tickets boughtby the customer. Implement using arrow functions.

Aim: To write a Javascript code to book movie tickets online and calculate thetotal price based on the given 3 conditions using functions. Syntax:

```
function name(parameter1, parameter2, parameter3)
{
// code to be executed
}
```

Program

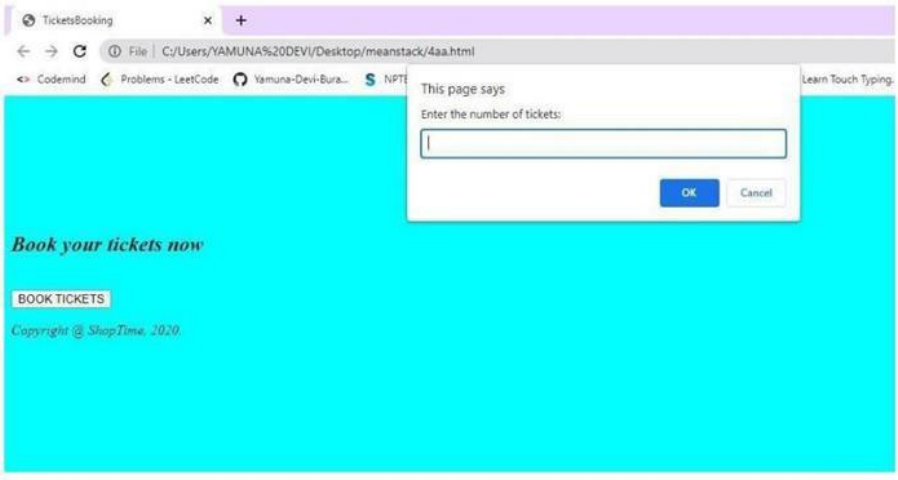
```
<html>
<head>
<title>TicketsBooking</title>
<script>
var x; var
y; var z;
fun=()=>
    {
```

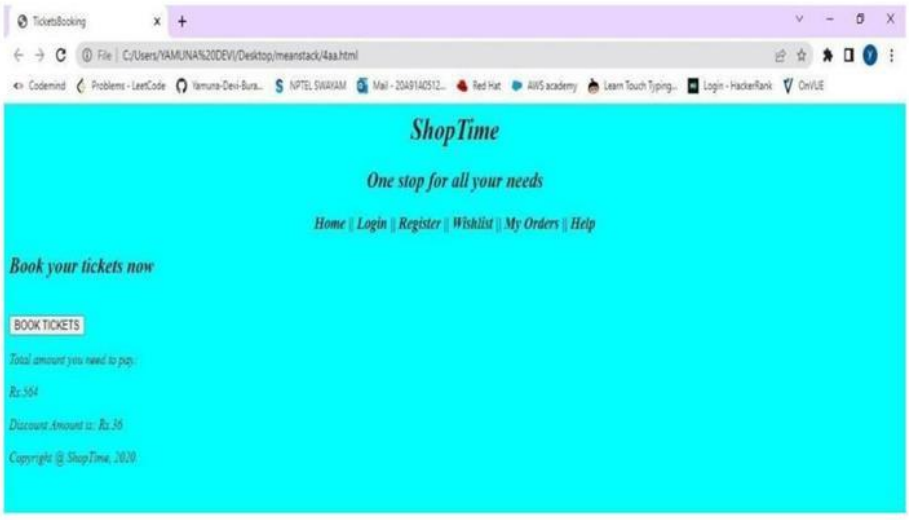
```
        vara=prompt("Enter the number of tickets:");
          if(a<6)
{
document.getElementById("id").innerHTML="Total amount you need to
pay:"; document.getElementById("id1").innerHTML="Rs."+calculateCost(a);
document.getElementById("id2").innerHTML="Discount Amount is:
Rs."+calculateDiscount(a);
}
else
{
document.getElementById("id").innerHTML="Sorry! You can book upto 5 tickets only
in online!!";
document.getElementById("id1").innerHTML="";
document.getElementById("id2").innerHTML="";
      }
}
const p=150;
calculateCost=(a)=>{v
ar i=1;
s=0;
j=0;
k=0.03
if(a>2 && a<6)
{
do
{
j=p-(p*k);
s+=j; j=0;
k+=0.02;
i+=1
}
while(i<=a);
}
```

```
else if(a<=2)
{
                s=p*a;          }
else
s=0;
returns;
}
calculateDiscount=(a)=>
{
var g=calculateCost(a);
varz=a*p;
returnz-g;
}
</script>
</head>
<bodybgcolor="cyan">
<center><h1><i>ShopTime</i></h1></center>
<h2 align="center"><i>One stop for all your
needs<i></h2> <header>
<nav align="center"><h3>
                Home || Login || Register || Wishlist || My
Orders || Help</h3>
</nav>
<center>
</header>
<h2>Book your tickets now</h2>
<br>
<input type="button"value="BOOK TICKETS"
onclick="fun()">
<p id="id"></p>
<p id="id1"></p>
<p id="id2"></p>
</body>
<footer>
```

```
    Copyright @ ShopTime, 2020.
</footer>
</html>
```

Output:





Exp No: 4b **Date**:

Course Name: Javascript

Module Name: Working With Classes, Creating and Inheriting Classes

Create an Employee class extending froma base class Person. Hints:
(i)Create a class Person with name and age as attributes.
(ii) Add a constructor to initialize the values
(iii) Create a class Employee extending Person with additional attributesrole and contact
(iv) The constructor of the Employee to accept the name, age, role andcontact where name and age are initialized through a call to super to invoke the base class constructor
(v)Add a method getDetails() to display all the details of Employee Aim: To

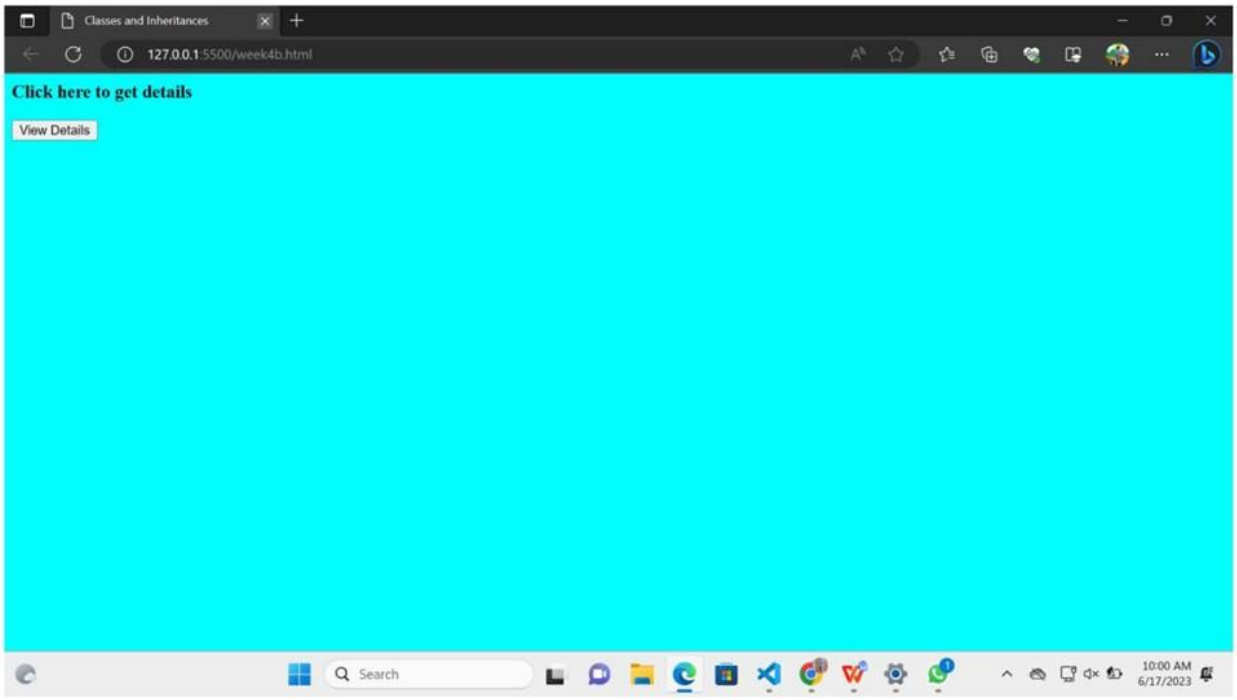
write a Javascript with classes,creating and inheriting classes.

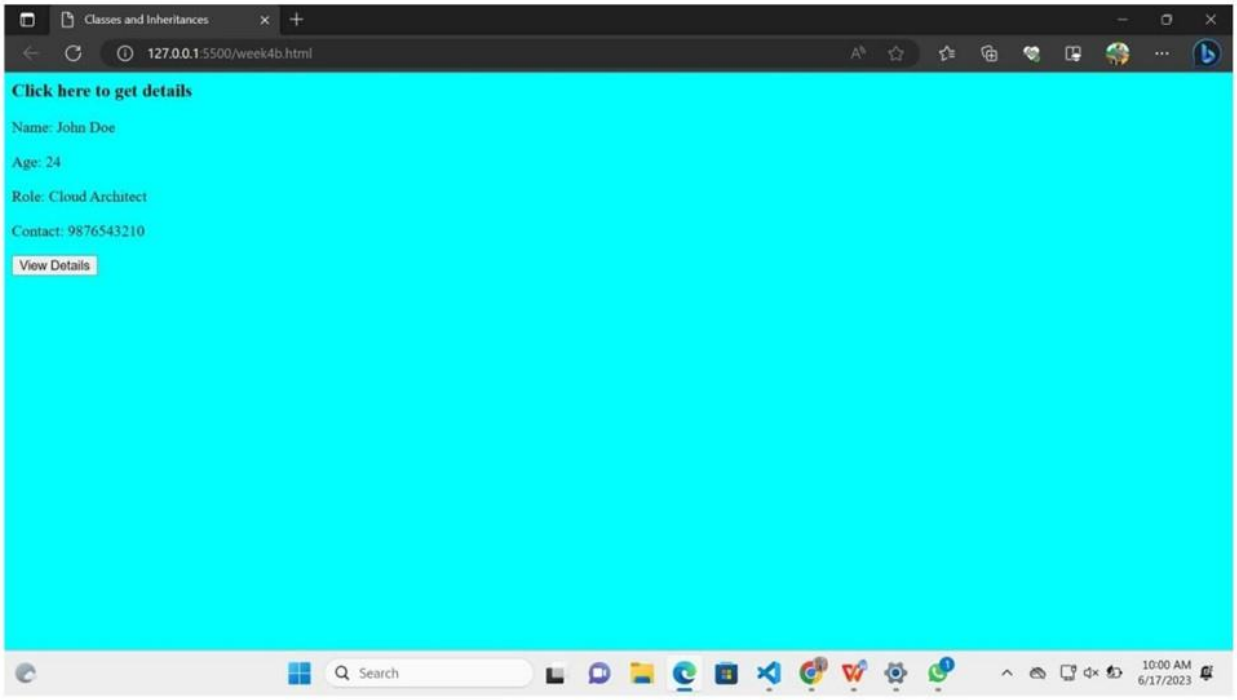
Program:

```
<html>
<head>
<title>Classes and Inheritances</title>
<script>            class Person
          {
              constructor(name,age)
              {
this.name=name; this.age=age;
              }
det()
{
return "Name: "+this.name+"<br>"+"<br>"+"Age: "+this.age;
}          }
   classEmployeeextends Person
          {
              constructor(name,age,role,contact)
              {
super(name,age);
this.roll=role;
this.contact=contact;
              }
```

```
 getDetails()
{
                return this.det()+"<br>"+"<br>"+"Role: "+this.roll+"<br>"+"<br>"+"Contact:
"+this.contact;
}
          }
function fun()
{
      let v=newEmployee("John Doe",24,"Cloud Architect","9876543210");
      document.getElementById("id1").innerHTML=v.getDetails();
}
</script>
</head>
<bodybgcolor="cyan">
<h1 style="background-color:rgb(223, 56, 56)"><center></center></h1>
<h3>Click here to get details </h3>
<p id="id1">
</p></center>
<input type="button"value="View Details"onclick="fun()">
</body>
</html>
```

Output:


Classes and Inheritances
127.0.0.1:5500/week4b.html
Click here to get details
View Details
Search
10:00 AM
6/17/2023


Classes and Inheritances
127.0.0.1:5500/week4b.html
Click here to get details
Name: John Doe
Age: 24
Role: Cloud Architect
Contact: 9876543210
View Details
Search
10:00 AM
6/17/2023

Exp No:4c **Date:**

Course Name: Javascript Module Name: In-built Events and Handlers

Write a JavaScript code to book movie tickets online and calculate the total price based on the 3 conditions:
(a) If seats to be booked are not more than 2, the cost per ticket remainsRs. 150.
(b) If seats are 6 or more, booking is not allowed.
(c) If seats to be booked are more than 2 but less than 6, based on the number of seats booked, do the following - Calculate total cost by applying discounts of 3, 5, 7, 9, 11 percent, and so on for customer 1,2,3,4and 5. Try the code with different values for the number of seats. Write thefollowing custom functions to implement given requirements:
(i) calculate Cost(seats): Calculate and display the total cost to be paid bythe customer for the tickets he has bought.
(ii) calculate Discount(seats): Calculate discount on the tickets bought bythe customer. Invoke this function only when the user clicks on a link/button.
Aim: To write a Javascript code to book movie tickets online and calculate thetotal price.

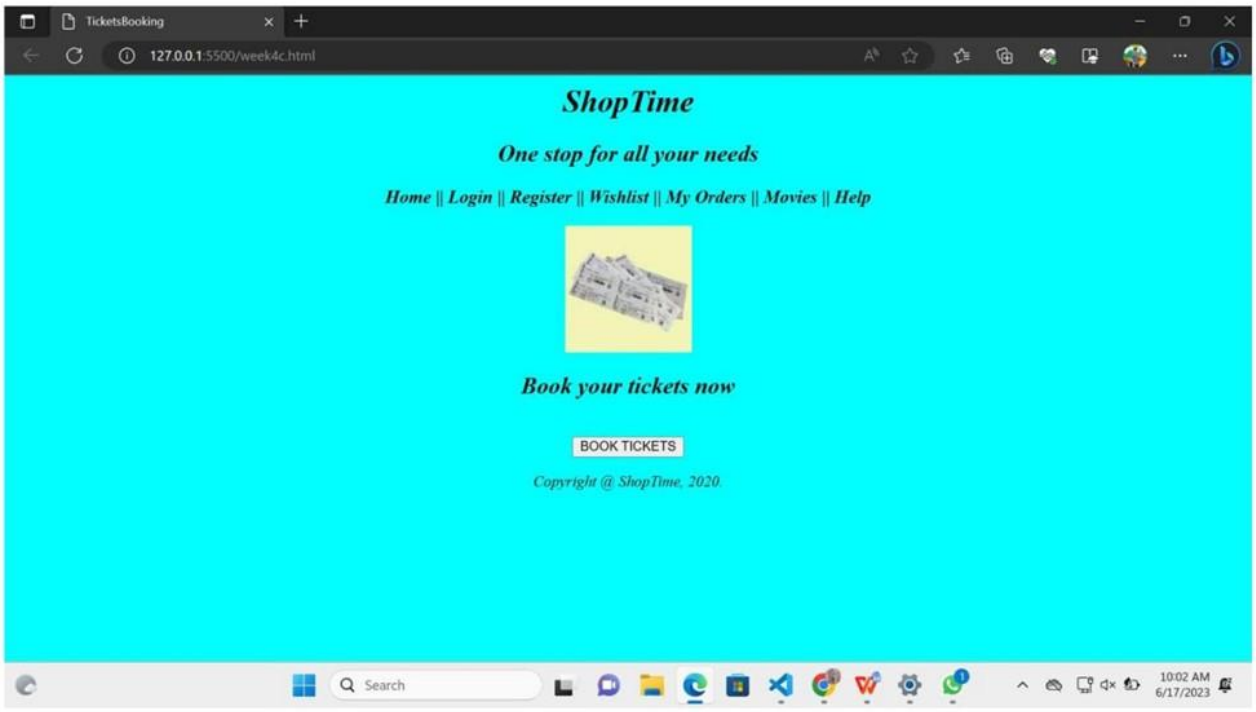
Program:

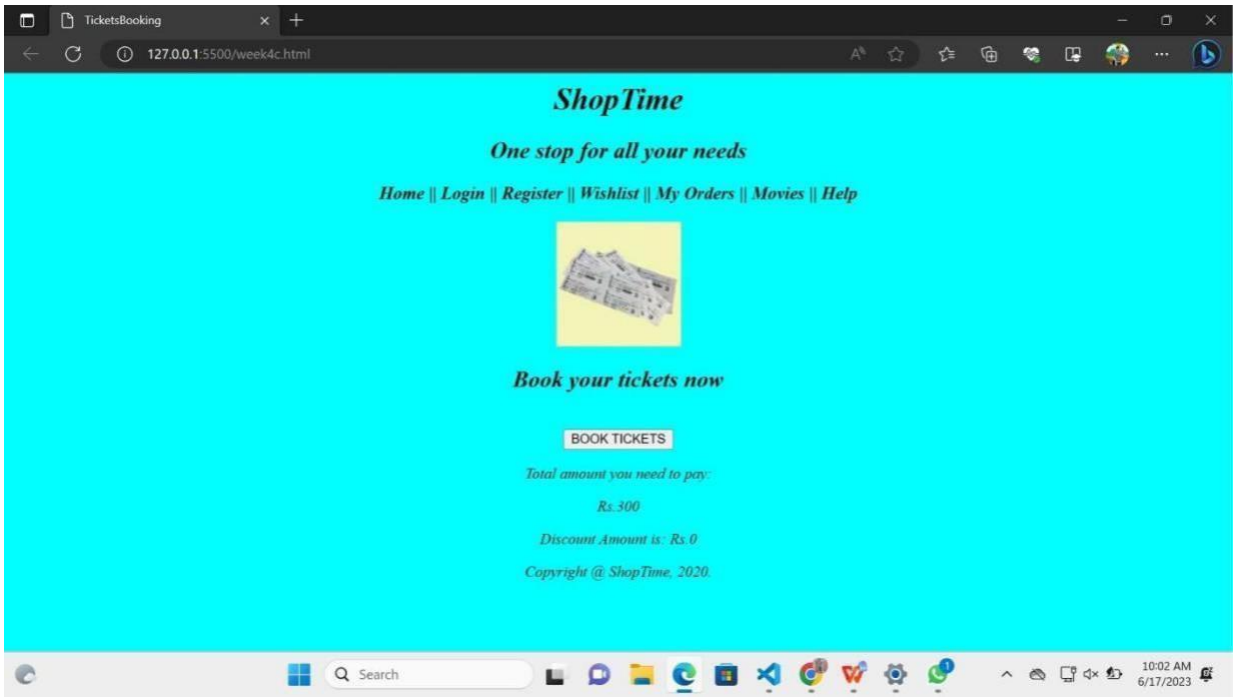
```
<html>
<head>
<title>TicketsBooking</title>
<script>            varx;
var y;
varz;            fun=()=>
    {
vara=prompt("Enter the number of tickets:");                if(a<6)
{
document.getElementById("id").innerHTML="Total amount you need to
pay:"; document.getElementById("id1").innerHTML="Rs."+calculateCost(a);
document.getElementById("id2").innerHTML="Discount Amount is:
Rs."+calculateDiscount(a);
}       else        {
document.getElementById("id").innerHTML="Sorry! You can book upto 5 tickets only
in online!!";
document.getElementById("id1").innerHTML="";
document.getElementById("id2").innerHTML="";
```

```
        }
}
const p=150;
calculateCost=(a)=>{ v
ar i=1;
s=0; j=0;
k=0.03;
if(a>2 && a<6)
        {
do
{
j=p-(p*k);              s+=j;              j=0;              k+=0.02;              i+=1;
        }
 while(i<=a);
          }
         else if(a<=2)
{
          s=p*a;
}
else
s=0;

           returns;
}
calculateDiscount=(a)=>
{
varg=calculateCost(a);          varz=a*p;
returnz-g;
}
</script>
</head>
<bodybgcolor="cyan">
<center><h1><i>ShopTime</i></h1></center>
```

```
<h2 align="center"><i>One stop for all your
needs<i></h2> <header>
<nav align="center"><h3>
                Home || Login || Register || Wishlist || My
Orders || Movies || Help</h3>
</nav>
<center>
</header>
<center><imgsrc="download.jpg"
alt="Tickets"></img> <h2>Book your tickets now</h2>
<br>
<input type="button"value="BOOK TICKETS"          onclick="fun()"><p id="id"></p>
<p id="id1"></p>
<p id="id2"></p>
</body>
<footer>
   Copyright @ ShopTime, 2020.
</footer></center>
</html>
```

Output:




TicketsBooking
127.0.0.1:5500/week4c.html
ShopTime
One stop for all your needs
Home || Login || Register || Wishlist || My Orders || Movies || Help
Book your tickets now
BOOK TICKETS
Total amount you need to pay:
Rs.300
Discount Amount is: Rs.0
Copyright @ ShopTime, 2020.
Search
10:02 AM
6/17/2023

Exp No :4d **Date :**

Course Name: Javascript

Module Name: Working with Objects, Typesof Objects, Creating Objects, Combining and cloning Objects using Spread operator, Destructuring Objects, Browser Object Model, Document Object Model

If auser clicks on the given link, they should see an empty cone, a different heading, and a different message and a different background color.If user clicks again, they should see a refilled cone, a different heading, adifferent message, and a different color in the background.

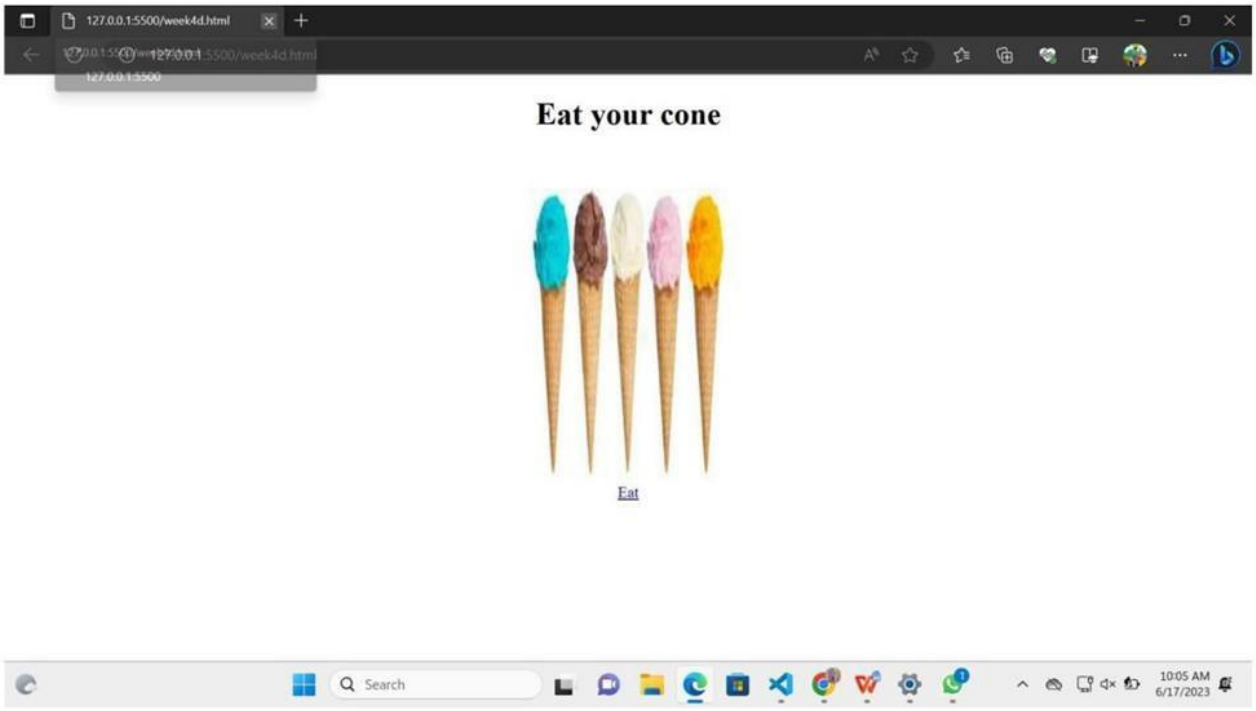
Aim: To write a Javascript with Objects, Creating Objects, Combining and cloning Objects using Spread operator, Destructuring Objects, Browser ObjectModel, Document Object Model.

Program:

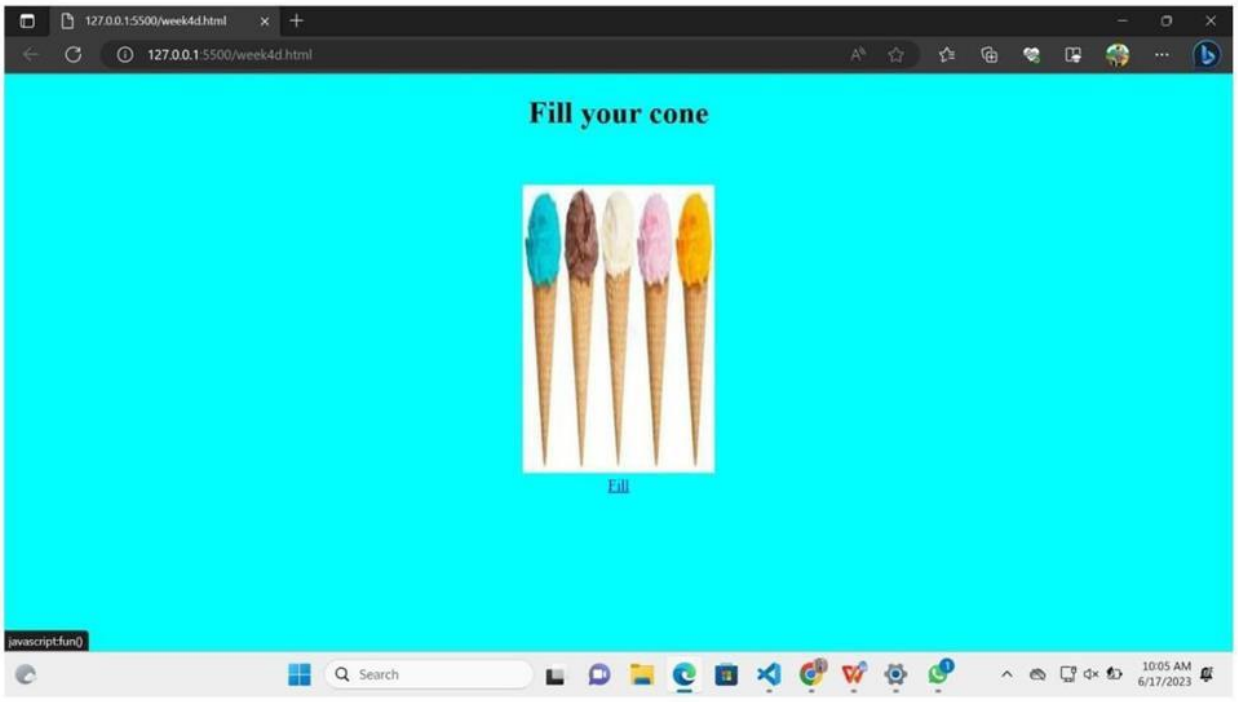
```
<!DOCTYPE html>
<html><script>      varc=0;      function fun()
{ if(c==0)
 {
document.body.style.backgroundColor = "cyan";
document.getElementById("id1").innerHTML="Fill your cone";
document.getElementById("imag").src="ice.jpg";
document.getElementById("link").innerHTML="Fill";
c=1;
}
else
{
document.body.style.backgroundColor = "pink";
document.getElementById("id1").innerHTML="Eat your
cone"; document.getElementById("imag").src="ice.jpg";
document.getElementById("link").innerHTML="Eat"; c=0;

}
}
</script>
<center>
<h1 id="id1">Eat your cone</h1>
<br><br>
```

```
 <imgsrc="ice.jpg"alt="Reload"height="300px"  width="200px"id="imag">
 <br>
 <a href="javascript:fun()"id="link">Eat</a>
</center>
 </body>
</html>
```

Output:



Output:


127.0.0.1:5500/week4d.html
127.0.0.1:5500/week4d.html
Fill your cone
Fill
javascript:fun()
Search
10:05 AM
6/17/2023

Experiment No:5 **Date:**

Java script

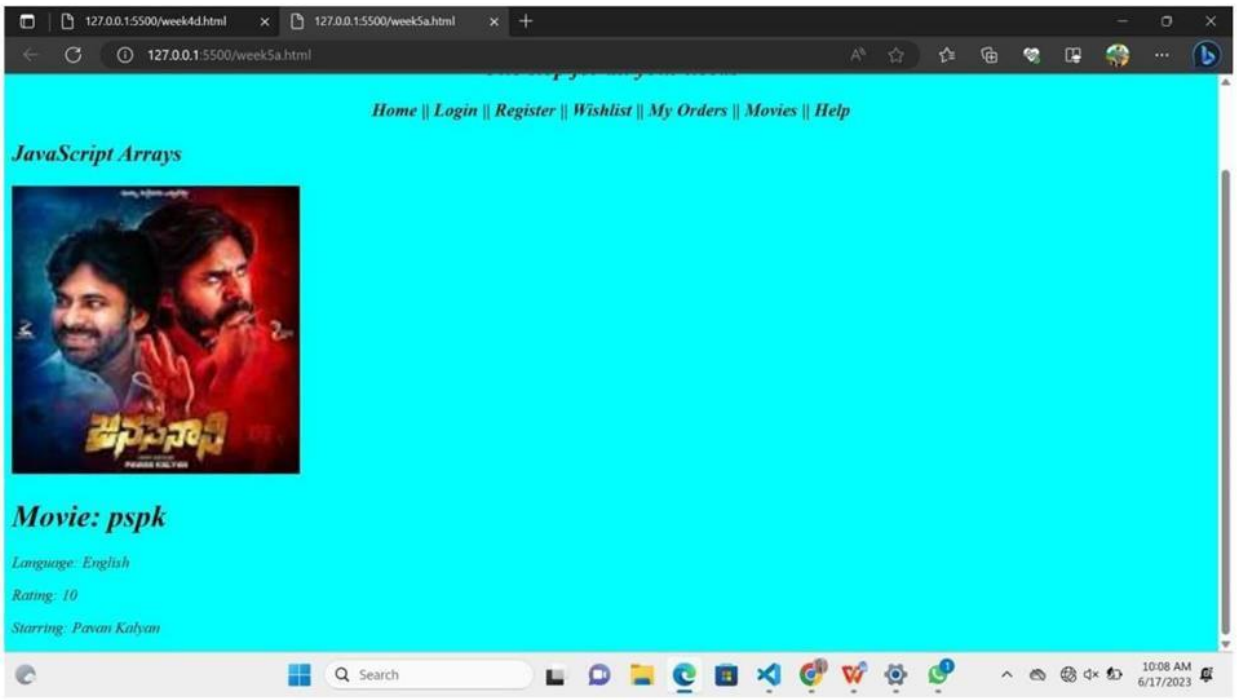
Course Name: Javascript
Module Name: Creating Arrays, Destructuring Arrays, Accessing Arrays,Array Methods
Create an array of objects having movie details. The object should includethe movie name, starring, language, and ratings. Render the details of movies on the page using the array.
Aim: To create an array of object having movie details.
Syntax:
constarray_name = [item1, item2, ...];

Program:

```
<!DOCTYPE html>
<html>
<bodybgcolor="cyan">
<center><h1><i>ShopTime</i></h1>
<h2 align="center"><i>One stop for all your
needs<i></h2> <header>
<nav align="center"><h3>
                Home || Login || Register || Wishlist || My
Orders || Movies || Help</h3> </nav>

</header></center>
<I><h2>JavaScript Arrays</h2></I>
<imgsrc="images.jpg" width="300px"
height="300px"></img> <B><h1 id="demo1"></h1></B> <p
id="demo2"></p>
<p id="demo3"></p>
<p id="demo4"></p>
<script>const Movie = [ "pspk",
  "English",
  "10",
"Pavan Kalyan",
 ];
```

```
document.getElementById("demo1").innerHTML ="Movie: "+Movie[0];
document.getElementById("demo2").innerHTML ="Language: "+Movie[1];
document.getElementById("demo3").innerHTML ="Rating: "+Movie[2];
document.getElementById("demo4").innerHTML ="Starring:
"+Movie[3]; </script>
</body>
</html>
```

Output:



Exp No :5b **Date :**

Course Name: Javascript

Module Name:Introduction to AsynchronousProgramming, Callbacks, Promises, Async and Await, Executing NetworkRequests using Fetch API

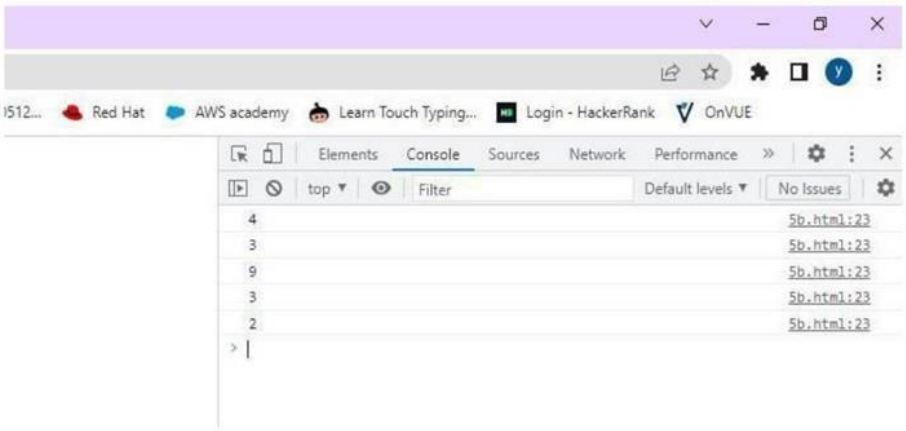
Simulate a periodic stock price change and display on the console. Hints:
(i) Create a method which returns a random number - use Math.random,floor and other methods to return a rounded value.
(ii) Invoke the method for every three seconds and stop when the count is5 –use the setInterval method.
(iii) Since setInterval is an async method, enclose the code in a Promiseand handle the response generated in a success callback.
(iv) The random value returned from the method every time can be usedas a stock price and displayed on the console.
Aim: To stimulate a periodic stock price change and display on the console.

Program:

```
<!DOCTYPEhtml>
<html lang="en">
<head>
   <metacharset="UTF-8">
<metahttp-equiv="X-UA-Compatible"
content="IE=edge"><meta name="viewport"
content="width=device-width, initialscale=1.0">
<title>Exp__5b</title>
</head>
<body>
<script>
let c=0;
conststock=setInterval(stokc,3000);
function stokc(){
varmyPromise =new Promise(function (resolve, reject)
{
   setTimeout(function ()
{
vara=Math.floor(Math.random() * 10);
          resolve(a);
   },
   3000);
```

```
});
myPromise.then(fun
        ction (data)
    {
            console.log(data);
},
        function (error)
            { console.log(error);
     }
);
c+=1;
 if(c==5)
{
Stop();
}
}
function Stop() {
        clearInterval(stock);
}
    </script>
</body>
</html>
```

Output:



Exp No: 5.c **Date :**

Course Name: Javascript

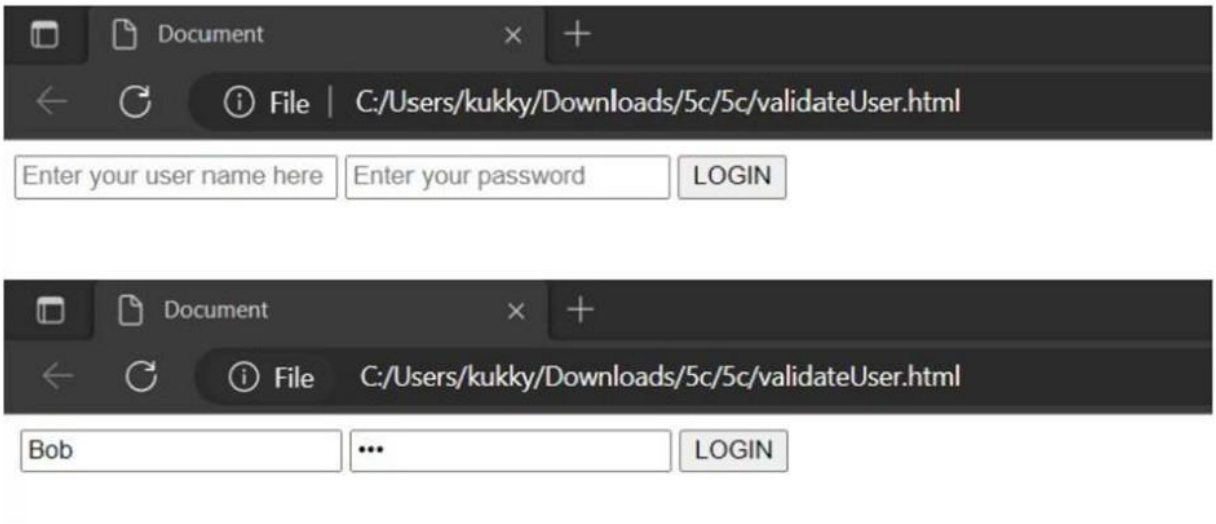
Module Name: Creating Modules, Consuming Modules

Validate the user by creating alogin module.
Hints: (i) Create a file login.js with a User class.
(ii) Create a validate method with username and password as arguments. (iii) If the username and password are equal it will return "Login Successful" else will return" Unauthorized access".
(iv) Create an validateUser.html file with textboxes username and password and asubmit button.
(v) Add a script tag in HTML to include validateUser.js file.
(vi) Create an validateUser.js file which imports login module and invokes validate method of User class.
(vii) On submit of the button in HTML the validate method of the User class should be invoked.
(viii) Implement the validate method to send the username and passworddetails entered by the user and capture the return value to display in the alert.

Program:

```
<!DOCTYPE html>
<html lang= "en">
<head>
<metacharset="UTF-8/>
<metahttp-euiv=" X-UA-Compatible"content=" IE=edge" />
<metaname ="viewname" content="width =device-width, initial-scale=1.0" />
<title>Document</title>
</head>
<body>
<input type ="text"name=" name" id=" name" placeholder=" Enter your user name
here" />
<input type ="password"name=" pass"id="password"placeholder=" Enter
your password" />
<button type ="submit" id =" btn" >LOGIN</button>
<script src ="validateUser.js" type="module" ></script>
<script src = "login.js" type=" module"></script>
</body>
</html>
```

Output:


Document
File
C:/Users/kukky/Downloads/5c/5c/validateUser.html
Enter your user name here
Enter your password
LOGIN
Document
File
C:/Users/kukky/Downloads/5c/5c/validateUser.html
Bob
LOGIN

Experiment No:6 **Date:**

Node.js

Course Name: Node.js
Module Name: How to use Node.js

Verify how toexecute different functions successfully in the Node.js platform. Aim: Learning about use of Node.js and verifying how to execute different functions successfully in the Node.js platform.

Sample.js

```
console.log("Node.js program to proceed");
```

```
C:\Users\harsha>cd nodejs
C:\Users\harsha\nodejs>node sample.js
Node.js program to proceed
```

Program:

```
function tester()
{
var m=10; var
message;if
(m%2==0)
{
message="m is an even number";
}
else
{
message="m is not an even number";
}
console.log(message);
}
tester();
```

Output:

```
PS C:\python programs\mean stack> node week6a.jsm is
an even number
```

Exp No: 6b **Date :**

Course Name: Node.js

Module Name: Create a web server in Node.js

Write a program to show the workflow of JavaScript code executable by creating web server in Node.js.

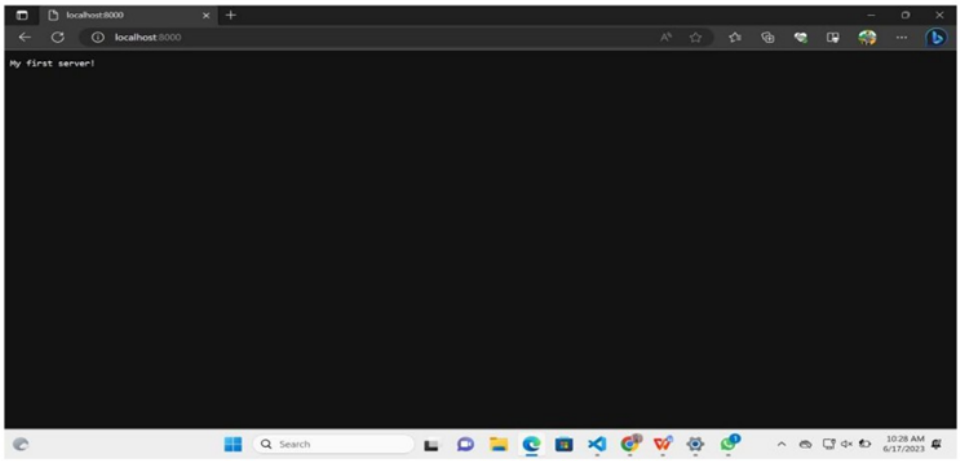
Aim: Creating a web server in Node.js and showing the workflow of JavaScript code executable by creating web server in Node.js.

Program:

```
const http = require("http");
const host ='localhost'; const
port =8000;
const requestListner = function(req, res) {


    res.end("My first server!");
};
const server = http.createServer(requestListner);
server.listen(port, host, () => {
    console.log(`Server is running on http://${host} :${port} `);
})
```

Output:

```
PS C:\python programs\mean stack> node week6b.js
Server is running on http://localhost:8000
```



Additional Exercise

a)Registration form:

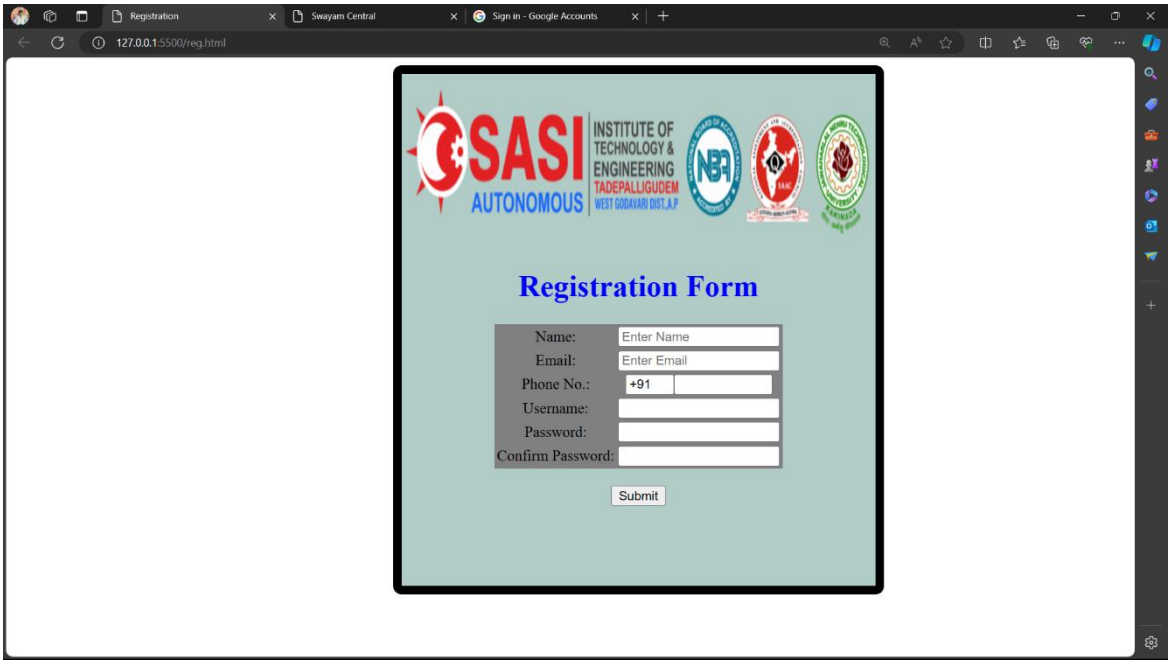
```
<!DOCTYPE html>

<html>
<head>
    <link rel="stylesheet" href="reg.css">
    <title>Registration</title>
</head>
<body>
 <div class="mainlayout">
   <form align="center">
       <img src="SASI-LOGO-960x188-1-800x157.png" alt="img of sasi"
width="500" height="180">
     <table align="center" bgcolor="gray">
    <caption><h1 style="color:blue;">Registration Form</h1></caption>
     <tr><td><label>Name:</label></td><td><input type="text"
placeholder="Enter Name"></td><br>
     <tr><td><label>Email:</label></td><td><input type="email"
placeholder="Enter Email"><br>
      <tr><td><label>Phone No.:</label></td><td><input type="text"
name="country code"  value="+91" size="2"/><input type="text" name="phone"
size="10"/><br>
     <tr><td><label>Username:</label></td><td><input type="text"><br>
     <tr><td><label>Password:</label></td><td><input type="password"><br>
     <tr><td><label>Confirm Password:</label></td><td><input
type="password" ><br>
     </table>
     <br>
     <input
type="button"onclick="window.location.href='http://127.0.0.1:5500/login.htm
l';" value="Submit"/>
     </form>
    </div>
</body>
```

Css code:-

```
.mainlayout{
 width: 500px;
 height: 540px;
 margin-left: 400px;
 margin-right: 300px;
 border: 20px;
```

```
 border: 9px;
 border-style: solid;
 display: block;
 border-radius: 9px;
 background-color:rgb(177, 203, 198);}
```

OUTPUT:



b)Login form:

HTML CODE:

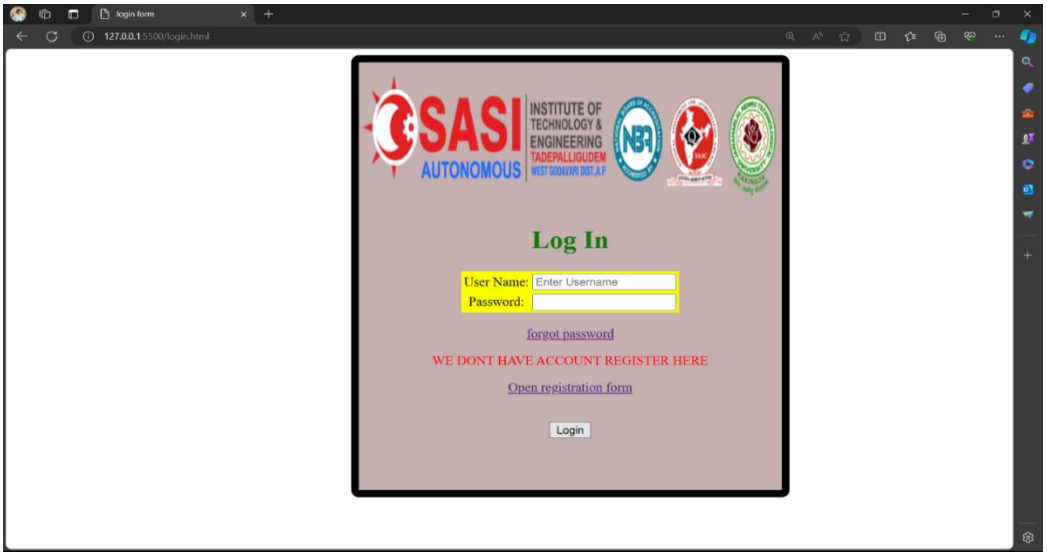
```
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="login.css">
    <title>login form</title>
</head>
<body>
 <div class="mainlayout">
  <form name="myForm" method="post"
action="http://www.javatpoint.com/javascriptpages/valid.jsp"
onsubmit="return validateform()" align="center">
    <img src="SASI-LOGO-960x188-1-800x157.png" alt="img of sasi"
width="500" height="180">
    <table align="center" bgcolor="yellow">
  <caption><h1 style="color:rgb(18, 121, 15);">Log In</h1></caption>
  <tr><td><label>User Name:</label></td><td><input type="name" id="use"
placeholder="Enter Username"><br>
```

```
   <tr><td><label>Password:</label></td><td><input id="psd"
type="password"><br>
    </table>
    <br><a href="http://127.0.0.1:5500/forgot.html">forgot password</a>
   <p style="color:rgb(255, 0, 0)">WE DONT HAVE ACCOUNT REGISTER HERE</p>
   <p><a href="http://127.0.0.1:5500/reg.html">Open registration
form</a></p>
  <br>
  <input
type="button"onclick="window.location.href='http://127.0.0.1:5500/wellcome.
html';" value="Login"/> sheet no-68

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

css code:

```
.mainlayout{
 width: 500px;
 height: 540px;
 margin-left: 400px;
 margin-right: 300px;
 border: 20px;
 border: 9px;
 border-style: solid;
 display: block;
 border-radius: 9px;
 background-color:rgb(198, 177, 177);

}
```

OUTPUT:

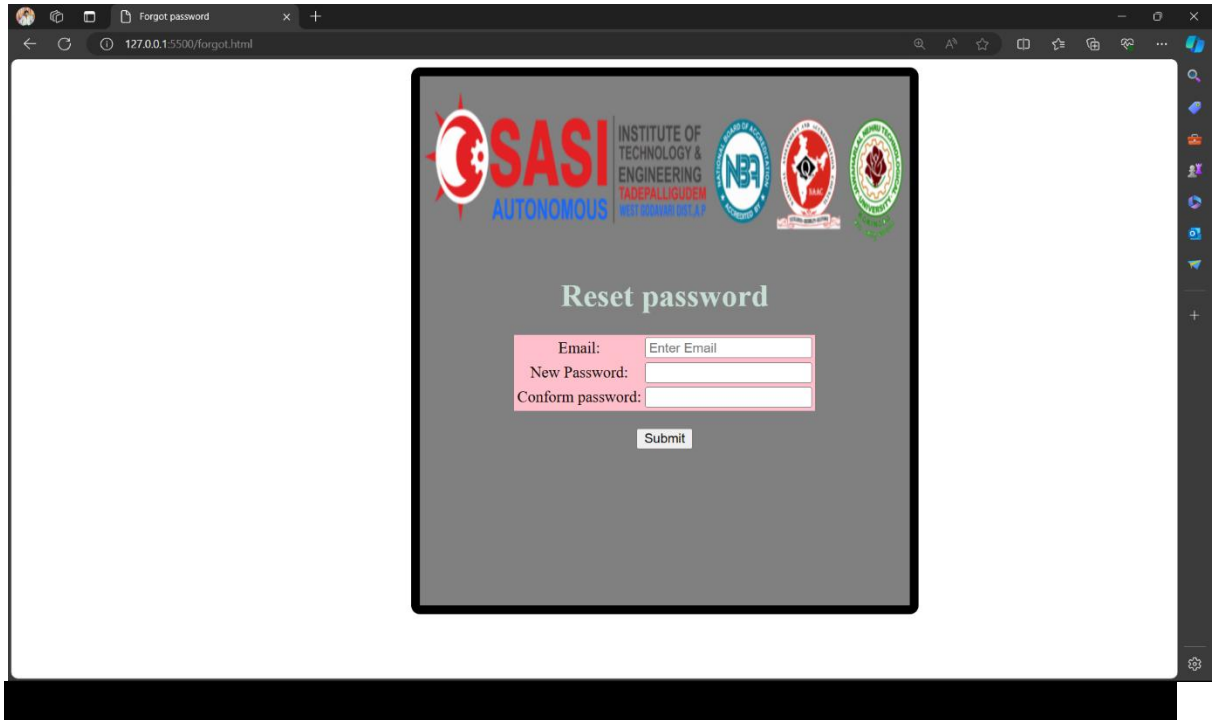


C)Forgot password form:

HTML CODE:

```
<!DOCTYPE html>
<html>
<head>
" href="forgot.css">
    <title>Forgot password</title>
</head>
<body>
 <div class="mainlayout">
    <form align="center">
        <img src="SASI-LOGO-960x188-1-800x157.png" alt="img of sasi"
width="500" height="180">
     <table align="center" bgcolor="pink">
    <caption><h1 style="color:rgb(201, 223, 212);">Reset
password</h1></caption>
    <tr><td><label>Email:</label></td><td><input type="email"
placeholder="Enter Email"><br>
      <tr><td><label>New Password:</label></td><td><input type="password">
<br>
     <tr><td><label>Conform password:</label></td><td><input
type="password"><br>
     </table>
     <br>
     <input
type="button"onclick="window.location.href='http://127.0.0.1:5500/login.htm
l';" value="Submit"/>
     </form>
 </div>
```

```
</body>
.mainlayout{
 width: 500px;
 height: 540px;
 margin-left: 400px;
 margin-right: 300px;
 border: 20px;
 border: 9px;
 border-style: solid;
 display: block;
 border-radius: 9px;
```



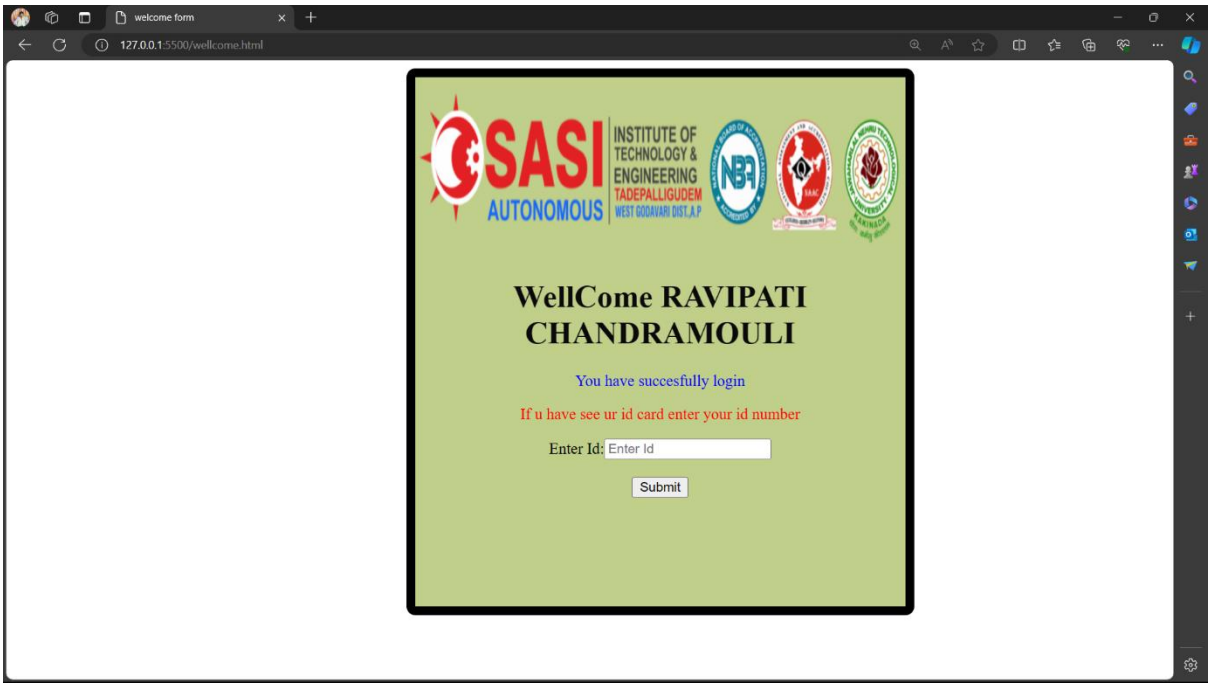
D)WELLCOME PAGE :

HTML CODE

```
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="wellcome.css">
    <title>welcome form</title>
</head>
<body>
 <div class="mainlayout">
  <img src="SASI-LOGO-960x188-1-800x157.png" alt="img of sasi" width="500"
height="180">
```

```
  <form align="center">
  <h1 style="color: rgba(5, 2, 8, 0.963);">WellCome RAVIPATI
CHANDRAMOULI</h1>
  <P style="color:blue">You have succesfully login</P>
  <p style="color:red">If u have see ur id card enter your id number</p>
  <tr><td><label>Enter Id:</label></td><td><input type="Id"
placeholder="Enter Id"><br>
  </table>
  <br>
  <input
type="button"onclick="window.location.href='http://127.0.0.1:5500/idcard.ht
ml';" value="Submit"/>
    </form>
 </div>
</body>
.mainlayout{
width: 500px;
 height: 540px;
 margin-left: 400px;
 margin-right: 300px;
 border: 20px;
 border: 9px;
 border-style: solid;
 display: block;
 border-radius: 9px;
 background-color:gray;}
```

OUTPUT:



E) ID CARD CODE:

HTML CODE:

```
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="idcard.css">
    <title>ID CARD</title>
</head>
<body>
    <div class="mainlayout">
        <div class="clgdetails">
            <h1 class="clg-code">SASI</h1>
        </div>
        <div class="clg-name2">
            <h4><u>INSTITUE OF</u> <br>
                <u>TECHNOLOGY&</u> <br>
                <u>ENGINEERING</u>
            </h4>
        </div>
        <div>
            <h4 class="code-exe"><u>autonomous</u></h4>
        </div>
        <div class="address">
            <h5>Tadepalligudem - 534101, www.sasi.ac.in</h5>
```

```
        </div>
        <div class="logo-val">
            <img src="factshomepage.png" alt="img of sasi" width="50"
height="50">
        </div>
        <div class="logo-val-txt">
            <b style="color:blue"><i>Values we live...</i></b>
        </div>
        <div class="middleblock">
            <img src="IMG_20240209_182228.jpg" alt="MY PICK" width="150"
height="150">
        </div>
        <div class="details">
            <b>KAYALA SNEHA</b><br>
            <b style="color: darkblue;">B.Tech -CSE</b><br>
            <b>22K61A0568</b><br>
            <img src="barcode.jpg" widht="100" height="70">
         </div>
        <div class="finalblock1">
            <b> Aadhar No:<b style="color:
aliceblue;">727551673616</b></b><br>
            <b> Father:<b style="color: aliceblue; font-size: x-
small;">SATHYANARAYANA</b></b><br>
            <b> Village:<b style="color: aliceblue;">SINGAVARAM</b></b><br>
            <b> Cell:<b style="color: aliceblue;">6302926262</b></b><br>
        </div>
        <div class="finalblock2">
            <b>Valid:<b style="color: aliceblue;">2022-26</b></b><br>
            <b>B.G:</b><br>
            <div class="sign">
                <img class="" style="align-items: center;"
src="IMG_20240209_182401.jpg"width="60" height="25"><br>
                <b style="color:black;font-size: medium; ">Principal</b>
            </div>

            <br><input
type="button"onclick="window.location.href='http://127.0.0.1:5500/login.htm
l';" value="Go Back"/></div></br>
        </div>
    </div>
</body>
</html>
<b></b>
```

CSS CODE:

```
.mainlayout{
    width: 320px;
```

```
    height: 480px;
    margin-left: 300px;
    margin-right: 300px;
    border: 20px;
    border: 9px;
    border-style: solid;
    display: block;
    border-radius: 9px;
}
.clgdetails{
    background-color: rgb(33, 248, 33);
    height: 80px;
}
.logo-val{
    position: relative;
    margin-left: 135px;
    margin-top: -120px;
}
.logo-val-txt{
    position: relative;
    left: 185px;
    top: -35px;
}
.middleblock{
    width: 150px;
    height: 150px;
    color: orangered;
    border: 3px;
    border-style: solid;
    margin-left: 90px;
    font-family: sans-serif;
    margin-top: -20px;
}
.details{
    text-align: center;
    color: orangered;
}
.finalblock1{
    width: 200px;
    height: 74px;
    background-color: rgba(2, 120, 2, 0.904);
    color: yellow;
    font-size: small;
}
.finalblock2{
    width: 120px;
    height: 74px;
```

```
    background-color: rgba(2, 120, 2, 0.904);
    color: yellow;
    font-size: small;
    margin-left: 200px;
    position: relative;
    bottom: 74px;
}
.sign{
    position: relative;
    left: 50px;
    bottom : 10px;
}
.clg-code{
    color: rgb(39,39,120);
    text-align: left;
    margin-top: -2px;
    position: relative;
    left: 50px;
    font-size: 50px;
    font-family: sans-serif;
 top: -5px;
}
.clg-name2{
    position: absolute;
    top :0px;
    left:490px;
    font-family: sans-serif;
    font-size: 1rem;
    color:rgb(39, 39, 120);
}
.code-exe{
    color: rgb(42, 185, 237);
    font-family: sans-serif;
    position: relative;
    left :50px;
    top:-68px;
    font-size: 20px;
}
.address{
    color: orangered;
    font-family: sans-serif;
    position: relative;
    left :50px;
    top:-95px;
    font-size: 15px;
}
```

OUTPUT:

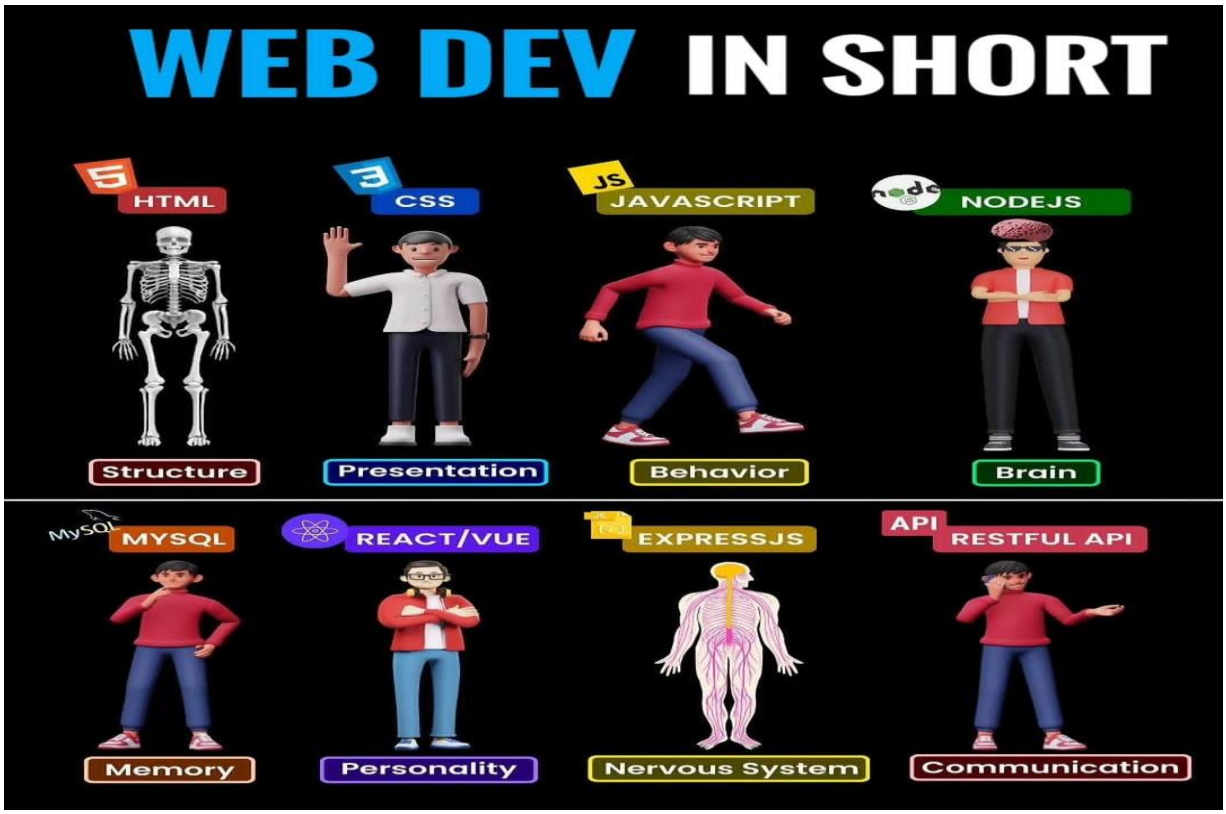

ID CARD
127.0.0.1:5501/id%20card.html
SASI
INSTITUE OF TECHNOLOGY&
autonomous ENGINEERING
Tadepalligudem - 534101, www.sasi.ac.in
Values we live...
KAYALA SNEHA
B.Tech -CSE
22K61A0568
Aadhar No:752489795815
Father:SATYANARAYANA
Village:SINGAVARAM
Cell:6302926262
Valid:2022-26
B.G:
Principal
Search
ENG
IN
07:02
21-04-2024

HTML TAGS

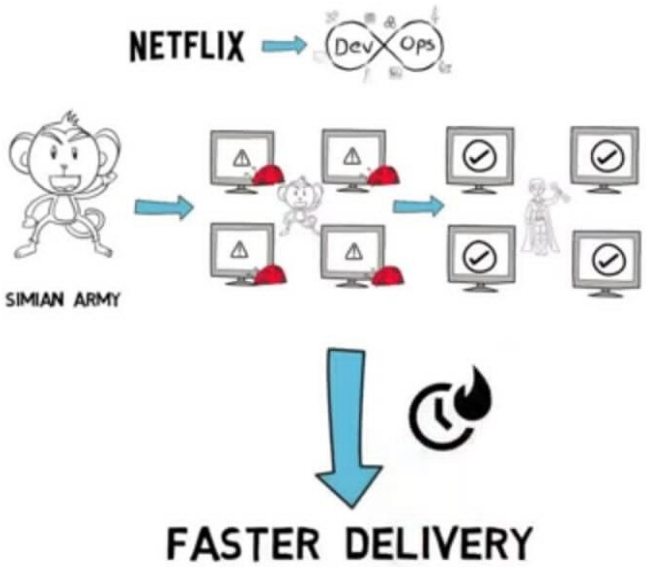
List of HTML Tags

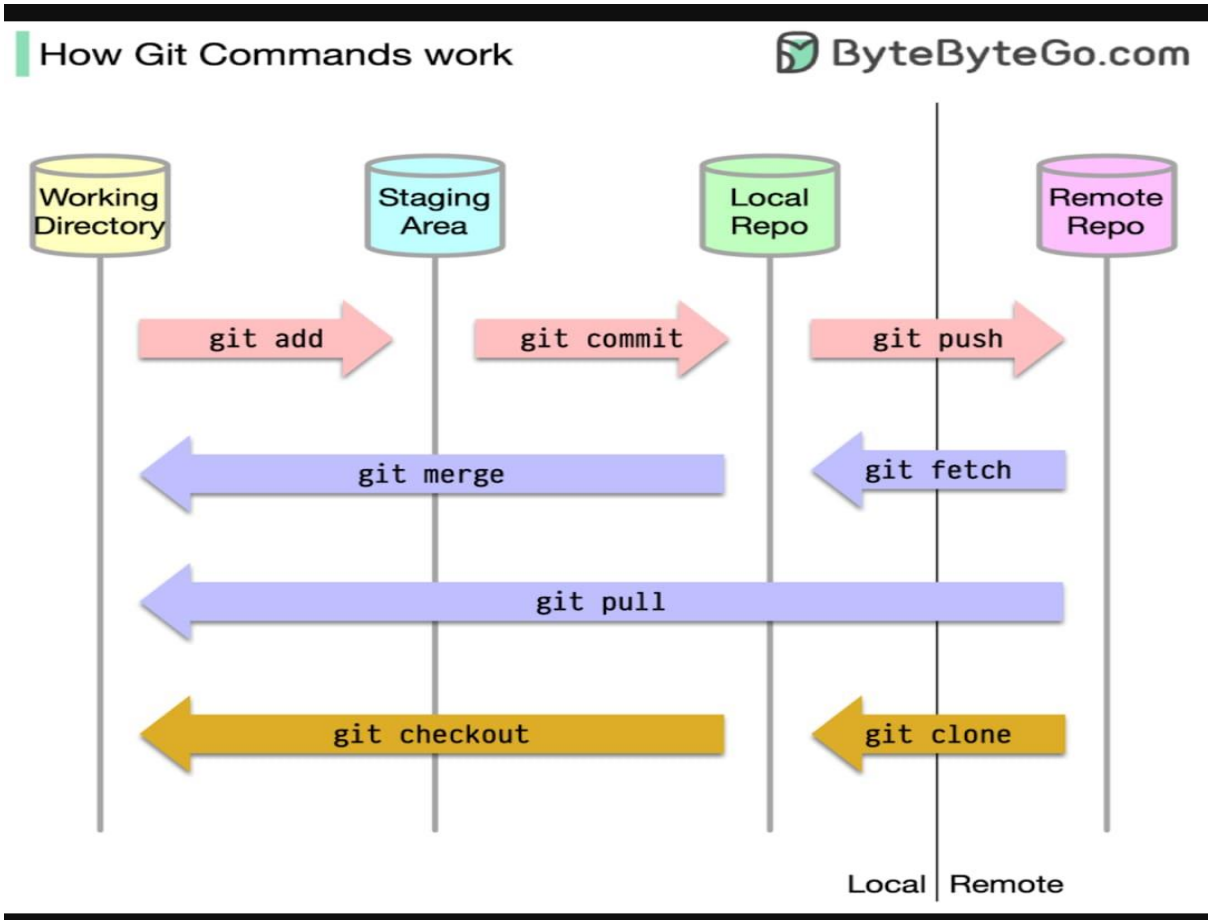
1/2

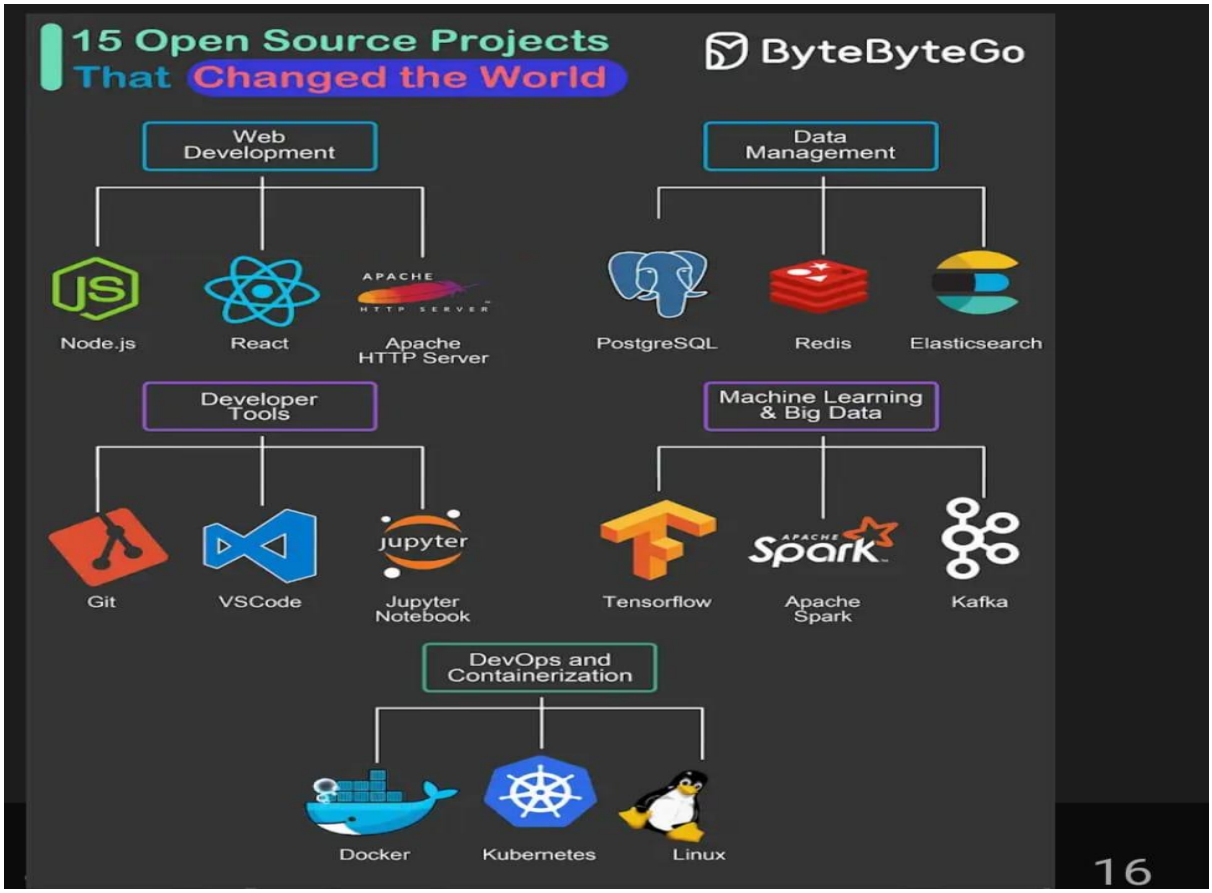
<!-...-->	<cite>	<frameset>	<object>	<style>
<!DOCTYPE>	<code>	<h1>to<h6>		<sub>
<a>	<col>	<head>	<optgroup>	<summary>
<abbr>	<colgroup>	<header>	<option>	<sup>
<acronym>	<data>	<hr>	<output>	<svg>
<address>	<datalist>	<html>	<p>	<table>
<applet>	<dd>	<i>	<param>	<tbody>
<area>	<del>	<iframe>	<picture>	<td>
<article>	<details>	<img>	<pre>	<template>
<aside>	<dfn>	<input>	<progress>	<textarea>
<audio>	<dialog>	<ins>	<q>	<tfoot>
<b>	<dir>	<kbd>	<rp>	<th>
<base>		<label>	<rt>	<thead>
<basefont>	<dl>	<legend>	<ruby>	<time>
<bdi>	<dt>		<s>	<title>
<bdo>		<link>	<samp>	<tr>
<big>	<embed>	<main>	<script>	<track>
<blockquote>	<fieldset>	<map>	<section>	<tt>
<body>	<figcaption>	<mark>	<select>	<u>
 	<figure>	<meta>	<small>	
<button>	<font>	<meter>	<source>	<var>
<canvas>	<footer>	<nav>		<video>
<caption>	<form>	<noframes>	<strike>	<wbr>
	<frame>	<noscript>		




1/2
WEB 2.0 TO WEB 3.0
The Transition to a Decentralized Web
Chrome → Brave
Go Daddy → ENS
Spotify → Audius
YouTube → Odysee
Dropbox → Filecoin
Whatsapp → Status
Patreon → Fantom
Facebook → Steemit
Google → Presearch
Paypal → Metamask


NETFLIX
Dev Ops
SIMIAN ARMY
FASTER DELIVERY


How Git Commands work
ByteByteGo.com
Working Directory
Staging Area
Local Repo
Remote Repo
git add
git commit
git push
git merge
git fetch
git pull
git checkout
git clone
Local
Remote


15 Open Source Projects That Changed the World
ByteByteGo
Web Development
Node.js
React
Apache HTTP Server
Data Management
PostgreSQL
Redis
Elasticsearch
Developer Tools
Git
VSCode
Jupyter Notebook
Machine Learning & Big Data
Tensorflow
Apache Spark
Kafka
DevOps and Containerization
Docker
Kubernetes
Linux
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