Exp No: Page No:

Date:



# **EXPERIMENT-1**

Aim:- Course Name: HTML5 - The Language Module Name: Case-insensitivity, Platformindependency, 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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex 2832066771114 4660000 shared?collectionId=lex 17739732834840810000 shared&colle ctionType=Course

# **Description:**

<meta charset="UTF-8">: Sets character encoding for proper text display.

<meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with older Internet Explorer versions.

<meta name="viewport" content="width=device-width, initial-scale=1.0">: Makes the page responsive across devices.

<meta name="description" content="...">: Provides a brief description of the website for search engines. < title>: Sets the webpage title shown on the browser tab.

# Program:-

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta name="description" content="as IEkart's is an online shopping</pre>
website that sells goods in retail . This is the company deals with
various categories like Electronics, Clothing, Accessories etc.">
<meta name="Keywords" content="HTML,CSS,JavaScript">
<meta name="author" content="ADITYA">
<meta name="viewport" content="width=device-width,intial-scale=1.0">
<title> Demo web page</title>
</head>
<body>
<!--this is a comment in html-->
<h1>Online EKART SHOPPING WEBSITE</h1>
</body>
</html>
```

## Output:-



Roll No: 22A91A61H2

# Online EKART SHOPPING WEBSITE



#### 1h

**Aim:**-Course Name: HTML5 - The Language Module Name: Sectioning Elements Enhance the Homepage.html of IEKart's Shopping Application by adding appropriate sectioning elements.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_6372291347110857 000\_shared?collectionId=lex\_17739732834840810000\_shared&collect AR20 AEC-AIML 276 ionType=Course

# **Description:-**

<meta charset="UTF-8">: Sets character encoding for proper text display.
<meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with
older Internet Explorer versions.

# Program:-

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta name="description" content="as IEkart's is an online shopping</pre>
website that sells goods in retail . This is the company deals with
various categories like Electronics, Clothing, Accessories etc.">
<meta name="Keywords" content="HTML,CSS,JavaScript">
<meta name="author" content="ADITYA">
<meta name="viewport" content="width=device-width,intial-scale=1.0">
<title> Demo web page</title>
<style>
    aside{
        width:30%;
        padding-left:15px;
        margin-left:15px;
        float:right;
        font-style:italic;
        background-color:rgb(165, 144, 144);
}
  header{
        text-align:center;
        padding:3px;
        background-color: DarkSalmon;
        color:white;
  footer{
    text-align:center;
   padding:3px;
   background-color:DarkSalmon;
    color:white;
</style>
</head>
<header>
<article>
<h1>Online EKART SHOPPING WEBSITE</h1>
</article>
```



```
<aside>
IEKart's is an online shopping website that sells good in
retail. This company deals with various categories like Electronics
Clothing, Accessories etc. "
</aside>
</header>
<body>
      <h2>Most Popular Websites</h2>
      <article class="browser">
            <nav>
            <a href="https://www.microsoft.com/en-
us/edge?form=MA13FJ">Edge</a>
            </nav>
      </article>
      <article class="browser">
                   <nav>
                  <a href="https://www.google.com">Google</a>
                   </nav>
      </article>
        <article class="browser">
                         <nav>
                               <a href="https://www.opera.com/">Opera</a>
                         </nav>
      </article>
      <footer>
            <article>
                   <h1>Online EKART Shopping website</h1>
                   Posted Aditya
            </article>
      </footer>
</body>
</html>
Output:-
 \leftarrow \  \  \, \rightarrow \  \  \, \textbf{C} \quad \, \textbf{(O) File} \quad \, \textbf{C:/Users/Srikanth/Desktop/MSTLAB/1b.html}
 > Close 🔊 Post Attendee - Zoo... 🙆 👲 Downloads 📮 Freshelkesume 🐐 LetsUpgrade Progra... 🕻 (IT Academy: Cloud... N Cloud and Virtualiza... 🐧 General account set... 💉 Submarine Cable M... 🐧 New Tab
                                                                                                » 🗎 All Bookmarks
                                       Online EKART SHOPPING WEBSITE
                                                                            IEKarl's is an online shopping website that sells good in retail.This
company deals with various categories like Electronics
Clothing.Accessories etc."
Most Popular Websites
Google
Opera
                                         Online EKART Shopping website
```

Roll No: 22A91A61H2

Exp No: Date:



## **1**c

**Aim:**- 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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_32785192040894940000 \_shared?collectionId=lex\_17739732834840810000\_shared&collectionType=Course

# **Description:-**

<meta charset="UTF-8">: Sets character encoding for proper text display.
<meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with
older Internet Explorer versions.

# Program:-

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta name="description" content="as IEKart's is an online shopping</pre>
website
that sells goods in retail. This company deals with various
categories
like Electronics, Clothing, Accessories etc.">
<meta name="keywords" content="HTML, CSS, JavaScript">
<meta name="author" content="ADITYA">
<meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
<title> Demo web Page </title>
<style>
aside {
width: 30%; padding-left: 15px; margin-left: 15px; float: right;
font-style: italic; background-color: lightgray;
header {
text-align: center; padding: 3px;
background-color: DarkSalmon; color: white;
footer {
text-align: center; padding: 3px;
background-color: DarkSalmon; color: white;
li{padding: 4px;}
div{ color:blue;height: wrap; width: wrap}
</style>
</head>
<header>
<article>
```



```
<h1> Online IEKART SHOPPING WEBSITE</h1>
</article>
<aside>
IEKart's is an online shopping website
that sells goods in retail. This company deals with various
categories like Electronics, Clothing, Accessories etc.
</aside>
</header>
<body>
<!--this is a comment in HTML-->
<div>
<!--list attribute-->
<l
Mobiles
Accessories
Electronics
</div>
 <!--div attribute-->
<div>
<!--paragraph attribute-->
ADITYA ENGINEERING COOLEGE, 
 SURAMPALEM, 
<!--span attribute-->
<span style= "color:red"> KAKINADA, </span> 
</div>
<!--Sectioning element-->
<footer>
<article>
Posted AU
</article>
</footer>
</body>
</html>
Output:
← → ♂ ① File C:/Users/Srikanth/Desktop/MSTLAB/1c.html
                                                                            ☆ ὑ∣⊜ :
 >> Close 🥏 Post Attendee - Zoo.... 🔞 🛂 Downloads 📮 FresheResume 🌟 LetsUpgrade Progra... 🧖 IT Academy, Cloud... N Cloud and Virtualiza... 🐧 General account set... 💌 Submarine Cable M... 🔇 New Tab
PROGRAM: -
                               Online IEKART SHOPPING WEBSITE

    Mobiles

    Accessories

    Electronics

ADITYA ENGINEERING COOLEGE,
SURAMPALEM,
KAKINADA,
```



#### 1d

**Aim:**-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. https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_1551510595327333 8000 shared?collectionId=lex 17739732834840810000 shared&collectionType=Course

# **Description:-**

<meta charset="UTF-8">: Sets character encoding for proper text display.
<meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with
older Internet Explorer versions.

# Program:-

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<meta name="description" content="as IEKart's is an online shopping</pre>
website that sells goods in retail. This company deals with various
categories like Electronics, Clothing, Accessories etc.">
<meta name="keywords" content="HTML, CSS, JavaScript">
<meta name="author" content="ADITYA">
<meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
<title> Demo web Page </title>
<style> aside {
width: 30%; padding-left: 15px; margin-left: 15px; float: right;
font-style: italic; background-color: lightgray;
header {
text-align: center; padding: 3px;
background-color: DarkSalmon; color: white;
footer {
text-align: center; padding: 3px;
background-color: DarkSalmon; color: white;
li{padding: 4px;}
div{ color:blue;height: wrap; width: wrap}
</style>
</head>
<header>
<article>
<h1> Online IEKART SHOPPING WEBSITE</h1>
</article>
<aside>
IEKart's is an online shopping website
that sells goods in retail. This company deals with various
categories like Electronics, Clothing, Accessories etc.
```



```
</aside>
</header>
<body>
<!--this is a comment in HTML-->
<div>
<!--list link attribute-->
<l
<a href="Login.html">LOGIN</a>
<a href="SignUp.html">SIGN UP</a>
<a href="Track.html">TRACK ORDER</a>
</div>
<!--div attribute-->
<div>
<!--paragraph attribute-->
 ADITYA ENGINEERING COLLEGE, 
 SURAMPALEM, 
<!--span attribute-->
<span style= "color:red"> KAKINADA, </span> 
</div>
<!--Sectioning element-->
<footer>
<article>
Posted AU
</article>
</footer>
</body>
</html>
Output:-
  → C ① File C:/Users/Srikanth/Desktop/MSTLAB/1d.html
 > Close 👼 Post Attendee - Zoo... 🔞 🛂 Downloads 📮 FresheResume 🧌 LetsUpgrade Progra... 🥫 IT Academy: Cloud... N Cloud and Virtualiza... 🙆 General account set... 💌 Submarine Cable M... 🥱 New Tab
                                                                                » | 🗀 All Bookmarks
                                Online IEKART SHOPPING WEBSITE
 • LOGIN

    SIGN UP

    TRACK ORDER

ADITYA ENGINEERING COLLEGE,
SURAMPALEM,
KAKINADA.
```



#### 1e.

**Aim:-** Course Name: HTML5 - The Language Module Name: Character Entities Add the © symbol in the Home page footer of IEKart's Shopping application.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_5476673769380962 60\_shared?collectionId=lex\_17739732834840810000\_shared&collectionType=Course **Description:**-

<meta charset="UTF-8">: Sets character encoding for proper text display.
<meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with
older Internet Explorer versions.

# Program:-

```
<!DOCTYPE html>
< ht.ml>
<head>
<meta charset="UTF-8">
<meta name="description" content="as IEKart's is an online shopping</pre>
website that sells goods in retail. This company deals with various
categories like Electronics, Clothing, Accessories etc.">
<meta name="keywords" content="HTML, CSS, JavaScript">
<meta name="author" content="ADITYA">
<meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
<title> Demo web Page </title>
<style> aside { width: 30%; ---
padding-left: 15px; margin-left: 15px; float: right;
font-style: italic; background-color: lightgray;
header {
text-align: center; padding: 3px;
background-color: DarkSalmon; color: white;
footer {
text-align: center; padding: 3px;
background-color: DarkSalmon; color: white;
li {padding: 4px;} div { color:blue;
height: wrap; width: wrap}
</style>
</head>
<header>
<article>
```

```
<h1> Online IEKART SHOPPING WEBSITE</h1>
</article>
<aside>
IEKart's is an online shopping website that sells goods in
retail.
This company deals with various categories like Electronics,
Clothing, Accessories etc.
</aside>
</header>
<body>
<!--this is a comment in HTML-->
<!--list link attribute-->
<l
<a href="Login.html">LOGIN</a>
<a href="SignUp.html">SIGN UP</a>
<a href="Track.html">TRACK ORDER</a>
</div>
<!--div attribute-->
<div>
<!--paragraph attribute-->
 ADITYA ENGINEERING COLLEGE, 
 SURAMPALEM, 
<!--span attribute-->
<span style= "color:red"> KAKINADA,</span> 
<!--Sectioning element-->
<footer>
<article>
<!--ADDING COPY RIGHTS element-->
© AEC
</article>
</footer>
</bod>
</html>
Output:
 • LOGIN
ADITYA ENGINEERING COLLEGE,
KAKINADA
```



Date:



Aim:-Course Name: HTML5 - The Language Module Name: HTML5 Global Attributes Add the global attributes such as contenteditable, spellcheck, id etc. to enhance the Signup Page functionality of IEKart's Shopping application.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex 2872356605032192 0000 shared?collectionId=lex 17739732834840810000 shared&collectionType=Course **Description:** 

<meta charset="UTF-8">: Sets character encoding for proper text display.

<meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with older Internet Explorer versions.

```
Program:-
```

```
<!DOCTYPE html>
<html>
<head>
<title> IEKart web Page </title>
<style> #myHeader { color: red;text-align: center;}
</style>
</head>
<header>
<article>
<h1> Online EKART SHOPPING WEBSITE</h1>
</article>
</header>
<body>
<!--contenteditable attribute-->
This is a paragraph. It is editable.
Try to change this text.
<!--spellcheck attribute-->
This is a spellcheck
<footer>
<article>
<h1 id="myHeader"> Online EKART SHOPPING WEBSITE</h1>
Posted AU
</article>
</footer>
</body>
</html>
Output:-
    C O File C:/Users/Srikanth/Desktop/MSTLAB/1f.html
    🥽 Post Attendee - Zoo... 🔞 👲 Downloads 🔼 FresheResume 🎁 LetsUpgrade Progra... 🧷 IT Academy: Cloud...
Online EKART SHOPPING WEBSITE
This is a paragraph. It is editable. Try to change this text.
This is a spellcheck
```

Online EKART SHOPPING WEBSITE

Roll No: 22A91A61H2

Posted AU

Roll No: 22A91A61H2

Exp No: Date:



# **EXPERIMENT-2**

Aim:-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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex auth 013168035284 033536113 shared?collectionId=lex 17739732834840810000 shared&collectionType=Cour se

# **Description:**

older Internet Explorer versions.

<meta charset="UTF-8">: Sets character encoding for proper text display. <meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with

# Program:-

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
   <title>IEKart Inventory</title>
   <style>
      table {
         border-collapse: collapse;
         width: 80%;
         margin: 20px auto;
      th, td {
         border: 1px solid black;
         padding: 10px;
         text-align: center;
      }
      th {
         background-color: #f2f2f2;
   </style>
</head>
<body>
   <h1>IEKart Mobile Inventory</h1>
   Model Name
         Brand
         Price
         Specifications
      Galaxy S21
         Samsung
         $799
         128GB
         5G
```



```
iPhone 12
              Apple
              $999
              256GB
          Total Mobiles Available
              50
          </body>
</html>
Output:
                        ume 🤺 LetsUpgrade Progra... 🧷 IT Academy. Cloud... N Cloud and Virtualiza... 🙆 General account set... 🗴 Submarine Cable M..
IEKart Mobile Inventory
                Model Name
                                    Brand
                                                 Price
                                                                Specifications
                 Galaxy S21
                                   Samsung
                                                 $799
                                                             128GB
                                                                         5G
                 iPhone 12
                                    Apple
                                                             256GB
                      Total Mobiles Available
```



Date:



Aim:- Course Name: HTML5 - The Language Module Name: Creating Form Elements, Color and Date Pickers, Select and Datalist Elements Using the form elements create Signup page for IEKart's Shopping application.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_13975270903118459000 shared?collectionId=lex 17739732834840810000 shared&collectionType=Course

# **Description:**

<meta charset="UTF-8">: Sets character encoding for proper text display. <meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with older Internet Explorer versions.

```
Program:-
```

```
<!DOCTYPE html>
<html>
<head>
    <title>Signup</title>
</head>
<body>
    <h1>IEKart Signup Form</h1>
        <label>Name:</label><input type="text" required><br><br>
        <label>Email:</label><input type="email" required><br><br>
        <label>Password:input type="password"
required><br><br>
        <label>Date of Birth:</label><input type="date"</pre>
required><br><br>
        <label>Gender:</label>
        <select>
<option>Male</option><option>Female</option><option>Other</option>
        </select><br><br>
        <label>Favorite Color:</label><input type="color"><br><br>
        <label>Mobile Brand:</label>
        <input list="brands"><datalist id="brands">
             <option>Apple</option><option>Samsung</option>
        </datalist><br><br>
        <input type="submit" value="Signup">
    </form>
</body>
</html>
Output:-
IEKart Signup Form
Password:
Date of Birth: dd-mm-yyyy 🗖
Gender: Male v
Favorite Color:
Mobile Brand:
```

#### 20

**Aim:-** 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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_1404841453706234 7000 shared?collectionId=lex 17739732834840810000 shared&collectionType=Course

# **Description:**

<meta charset="UTF-8">: Sets character encoding for proper text display.
<meta http-equiv="X-UA-Compatible" content="IE=edge">: Ensures compatibility with
older Internet Explorer versions.

# **Program:**

```
<!DOCTYPE html>
< ht.ml>
<body>
<h2>Input Attributes</h2>
<form action="/action page.php">
<label for="fname">First name:</label><br>
<input type="text" id="fname" name="fname"><br>
<label for="lname">Last name:
<input type="text" id="lname" name="lname"><br>
<label for="pwd">Password:</label><br>
<input type="password" id="pwd" name="pwd"><br>
<input type="radio" id="html" name="fav language" value="HTML">
<label for="html">HTML</label><br>
<input type="radio" id="css" name="fav language" value="CSS">
<label for="css">CSS</label><br>
<input type="radio" id="javascript" name="fav_language"</pre>
value="JavaScript">
<label for="javascript">JavaScript</label><br><br>
<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
<label for="vehicle1"> I have a bike</label><br>>
<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
<label for="vehicle2"> I have a car</label><br>
<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
<label for="vehicle3"> I have a boat</label><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```



Exp No: Page No:





**Aim:**-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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_3073840222579494 5000 shared?collectionId=lex 17739732834840810000 shared&collectionType=Course

```
Description:-
Program:-
<<!DOCTYPE html>
<html>
<head>
     <title></title>
</head>
<body>
     <video height="300"width="600" controls>
     <source src="div.mp4" type="video/mp4">
</video>
<audio controls>
     <source src="kav.mp3" type="audio/mp3">
     </audio>
<iframe width="600" height="400"</pre>
src="https://www.youtube.com/embed/videoid"
allowfullscreen></iframe>
</body>
</html>
Output:
```

Roll No: 22A91A61H2

Exp No: Date:



# **EXPERIMENT-3**

# 3a

Aim:-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 the difference with var and let) and PI (const).

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex auth 013053264414 818304732 shared?collectionId=lex 18109698366332810000 shared &collectionType=Course

# **Description:**

var and let to declare and reassign the radius of the circle.

const to declare the value of  $\pi$  (PI), since its value should not change.

# Program:-

```
<!DOCTYPE html>
<html>
<head>
<title> Area of Circle</title>
</head>
<body>
<h1>Area of the circle</h1>
<script>
let r=5;
const PI=3.14;
let area=PI*r*r;
document.write(area);
</script>
</body>
</html>
```

# **Output:**



Exp No: Page No:





### 3<sub>b</sub>

**Aim:**Course Name: Javascript Module Name: Primitive and Non Primitive Data Types Write JavaScript code to display the movie details such as movie name, starring, language, and ratings. Initialize the variables with values of appropriate types. Use template literals wherever necessary. https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_21528322245232402000 \_shared?collectionId=lex\_18109698366332810000\_shared&collectionType=Course

# **Description:**

var and let to declare and reassign the radius of the circle.

const to declare the value of  $\pi$  (PI), since its value should not change.

## Program: -

```
<!DOCTYPE html>
<html>
<head>
<title>Movie Details</title>
</head>
<body>
<h1><p id="temp"></p></h1>
<div id="moviesList"></div>
<script>
// Using template literals
let t = 'Movies List "Favourite"';
document.getElementById("temp").innerHTML
var movies = [
        name: 'RRR',
        starring: 'Charan, NTR',
        language: 'Telugu',
        rating: '5'
    },
        name: 'Pushpa',
        starring: 'Allu "Arjun"',
        language: 'Telugu',
        rating: '5'
];
let movieDetails = "";
for (var i = 0; i < movies.length; i++) {</pre>
    movieDetails += movies[i].name + " | " + movies[i].starring + "
 " + movies[i].language + " | " + movies[i].rating + '<br>';
// Output movie details in the div
```



```
document.getElementById("moviesList").innerHTML = movieDetails;
</script>
</body>
</html>
Output:
          (i) File C:/Users/Srikanth/Desktop/MSTLAB/3b.html
     📨 Post Attendee - Zoo... 🕓 👲 Downloads 📮 FresheResume 🎁 LetsUpgrade Progra... 🧷 IT Academy: Cloud...
Movies List "Favourite"
RRR | Charan, NTR | Telugu | 5
Pushpa | Allu "Arjun" | Telugu | 5
```





Date:

Aim:-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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex 1380833838448172 0000 shared?collectionId=lex 18109698366332810000 shared&collectionType=Course

# **Description:**

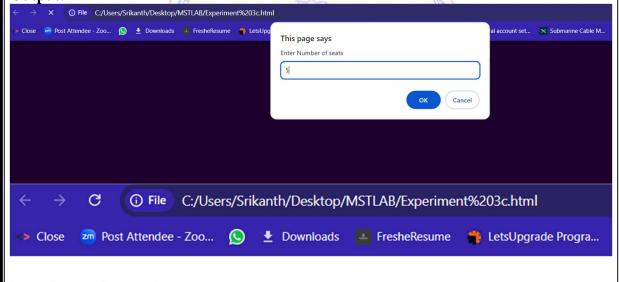
var and let to declare and reassign the radius of the circle.

const to declare the value of  $\pi$  (PI), since its value should not change.

# **Program:**

```
<!DOCTYPE html>
<html>
<head>
<title>Ticket Booking</title>
</head>
<body>
<h1>Ticket Booking</h1>
<script>
let seats=prompt("Enter number of seats");
let price=150;
let discount=1;
</script>
```

## **Output:**



Roll No: 22A91A61H2

# Ticket Booking

Total Discount:75



#### 3d

Aim:-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 of 3, 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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_1625749847133361 0000 shared?collectionId=lex 18109698366332810000 shared&collectionType=Course

# **Description:**

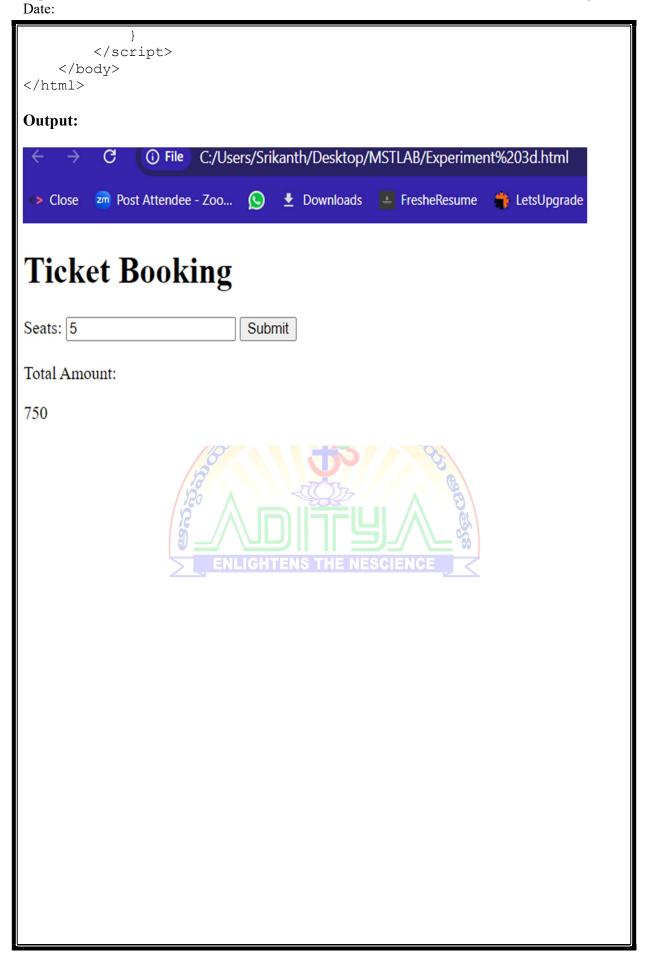
var and let to declare and reassign the radius of the circle. const to declare the value of  $\pi$  (PI), since its value should not change.

# Program:

```
<!DOCTYPE html>
<html>
    <head>
        <title>Ticket Booking</title>
    </head>
    <body>
        <h1>Ticket Booking</h1>
        Seats: <input type="text" id="tickets">
        <button onclick="myFunction()">Submit</button><br><br>
        Total Amount:cp id="demo">
        <script>
            function myFunction()
                 var x=parseInt(document.getElementById("tickets").value);
                 let price=150;
                 if(x \le 2)
                     document.getElementById("demo").innerHTML=x*price;
                 else if (x==3)
                     document.getElementById("demo").innerHTML=x*price;
                 else if (x==4)
                     document.getElementById("demo").innerHTML=x*price;
                 else if (x==5)
                     document.getElementById("demo").innerHTML=x*price;
                 if(x>=6)
                   document.getElementById("demo").innerHTML="6 or more
tickets are not allowed";
```



Exp No: Page No:





#### 36

Aim:- Course Name: Javascript Module Name: Types of Loops 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 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. https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_6238536888292970000\_shared?collectionId=lex\_18109698366332810000\_shared&collectionType=Course

# **Description:**

var and let to declare and reassign the radius of the circle. const to declare the value of  $\pi$  (PI), since its value should not change

# **Program:**

```
<!DOCTYPE html>
<html>
<head>
    <title>Movie Tickets Booking</title>
</head>
<body>
    <label for="num1">Enter Number Of Seats - </label>
    <input type="number" id="num1">
    <button onclick="getFare()">GET FARE</button>
    <h1 id="h1" style="display:none;"></h1>
    <script type="text/javascript">
        function getFare() {
           let seats =parseInt(document.getElementById("num1").value);
            let price = 150;
            let totalfare = 0;
            if (isNaN(seats) || seats < 1) {</pre>
W
               document.getElementById("h1").style.display = "block";
                return;
            }
            if (seats <= 2) {
                totalfare = price * seats;
            } else if (seats >= 6) {
                document.getElementById("h1").innerHTML = "Booking is not
allowed for 6 or more seats.";
                document.getElementById("h1").style.display =
"block"; // Add this line to show the message
                return; // Exit the function
            } else {
                let discount = 0;
                for (let i = 3; i <= seats; i++) {
```







# **Output:**



Enter Number Of Seats - 5

**GET FARE** 

Roll No: 22A91A61H2

**Total Fare: 705.00** 



# **EXPERIMENT-4**

#### 4a

Aim:-Course Name: Javascript Module Name: Types of Functions, Declaring and 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 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 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. Write the following custom functions to implement given requirements: i. calculateCost(seats): Calculate and display the total cost to be paid by the customer for the tickets they have bought. ii. calculateDiscount(seats): Calculate discount on the tickets bought by the customer. Implement using arrow functions.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_1545519957061332 6000 shared?collectionId=lex 18109698366332810000 shared&collectionType=Course

# **Description:**

Invoking Function: The function bookTickets(seats) is invoked with the number of seats to process the booking.

Arrow Function: The calculateDiscount function is an arrow function that calculates the discount based on the number of seats booked.

Function Parameters: Functions like bookTickets(seats) and calculateCost(seats, costPerTicket) use parameters to accept the number of seats and ticket price.

Nested Function: The bookTickets function calls the calculateCost and calculateDiscount functions, demonstrating nested function calls.

Built-in Functions: The code uses console.log() (a built-in JavaScript function) to output the result.

# Program:

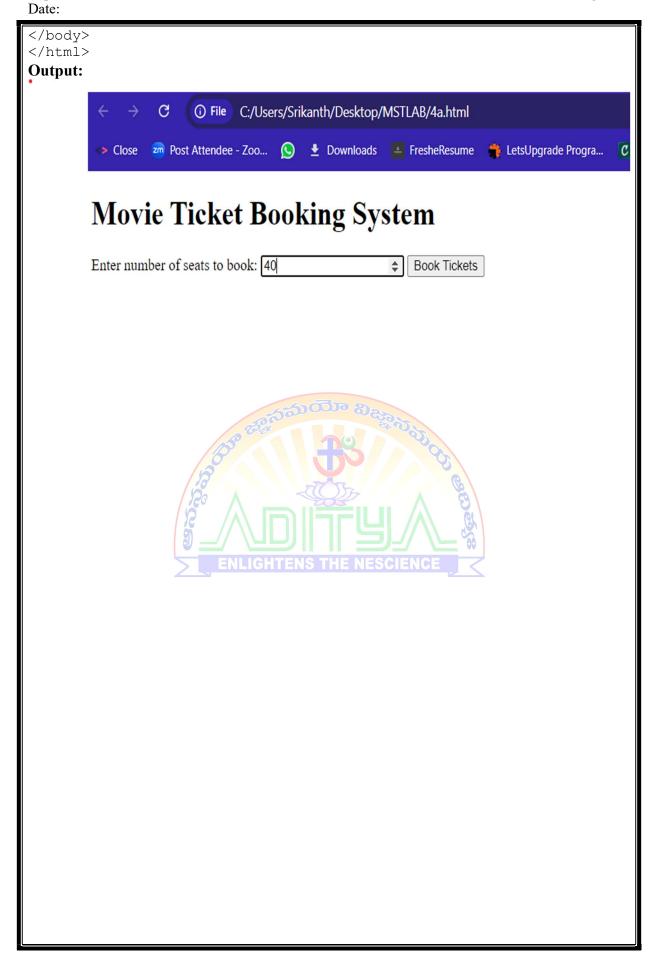
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>Movie Ticket Booking</title>
</head>
<body>
    <h1>Movie Ticket Booking System</h1>
    <label for="seats">Enter number of seats to book:</label>
    <input type="number" id="seats" min="1" />
    <button id="bookButton">Book Tickets
    <script>
        // Function to calculate discount based on the number of
seats
        const calculateDiscount = (seats) => {
            // Discounts for seats from 3 to 5
            const discounts = [0, 3, 5, 7, 9, 11]; // discounts for
  4, 5 seats respectively
```



```
// If seats are 3 or more, return the discount
percentage
            if (seats >= 3 && seats <= 5) {
                return discounts[seats - 3]; // discounts[0] is for
3 seats, etc.
            // If seats are less than 3 or more than 5, no discount
            return 0;
        };
        // Function to calculate total cost based on the number of
seats
        const calculateCost = (seats) => {
            const costPerTicket = 150; // Cost per ticket
            let totalCost;
            // Check the conditions for booking
            if (seats < 3) {
                // Condition (a): If seats to be booked are not more
than 2
                totalCost = seats * costPerTicket;
            } else if (seats >= 6) {
                // Condition (b): If seats are 6 or more, booking is
not allowed
                console.log("Booking is not allowed for 6 or more
seats.");
                return null;
            } else {
                // Condition (c): More than 2 but less than 6
                const discount = calculateDiscount(seats);
                totalCost = seats * costPerTicket * (1 - discount /
100);
            console.log(`Total cost for booking ${seats} seat(s):
Rs. ${totalCost.toFixed(2)}`);
           return totalCost;
        };
        // Event listener for the button click
document.getElementById("bookButton").addEventListener("click", ()
=> {
            const seats =
parseInt(document.getElementById("seats").value);
            if (!isNaN(seats) && seats > 0) {
                calculateCost(seats);
            } else {
                console.log("Please enter a valid number of
seats.");
        });
    </script>
```



Exp No: Page No:





#### 4h

Aim:-Course Name: Javascript Module Name: Working With Classes, Creating and Inheriting Classes Create an Employee class extending from a base class Person. Hints: (i) Create a class Person with AR20 AEC-AIML 278 name and age as attributes. (ii) Add a constructor to initialize the values (iii) Create a class Employee extending Person with additional attributes role and contact (iv) The constructor of the Employee to accept the name, age, role and contact 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.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_auth\_012599811117 760512458\_shared?collectionId=lex\_18109698366332810000\_shared &collectionType=Course

# **Description:**

The <script> tag contains the JavaScript code that defines the Person and Employee classes and creates instances of these classes.

The details of each employee are displayed dynamically by modifying the inner HTML of the output <div>.

# Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>Employee Class Example</title>
</head>
<body>
    <h1>Employee Details</h1>
    <div id="output"></div> <!-- This will display the output -->
    <script>
        // Step 1: Create the Person class
        class Person {
            constructor(name, age) {
                this.name = name; // Initialize name
                this.age = age; // Initialize age
            }
        }
        // Step 2: Create the Employee class extending Person
        class Employee extends Person {
            constructor(name, age, role, contact) {
                super(name, age); // Call the constructor of Person
                this.role = role; // Initialize role
                this.contact = contact; // Initialize contact
            }
            // Step 3: Method to get details of Employee
            getDetails() {
```



```
return `Name: ${this.name}, Age: ${this.age}, Role:
${this.role}, Contact: ${this.contact}`;

}

// Example usage
    const employee1 = new Employee('Alice Johnson', 30,
'Software Developer', '123-456-7890');
    const employee2 = new Employee('Bob Smith', 25, 'Data
Scientist', '987-654-3210');

// Display the employee details on the webpage
    const outputDiv = document.getElementById('output');
    outputDiv.innerHTML += `${employee1.getDetails()}`;
    outputDiv.innerHTML += `${employee2.getDetails()}`;
</body>
</html>
```

# **Output:**



# **Employee Details**

Name: Alice Johnson, Age: 30, Role: Software Developer, Contact: 123-456-7890

Name: Bob Smith, Age: 25, Role: Data Scientist, Contact: 987-654-3210



### 4c

Aim:- 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 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 of 3, 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. Write the following custom functions to implement given requirements: (i) calculateCost(seats): Calculate and display the total cost to be paid by the customer for the tickets he has bought. (ii) calculateDiscount(seats): Calculate discount on the tickets bought by the customer. Invoke this function only when the user clicks on a link/button.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_4192188372573027 000 shared?collectionId=lex 18109698366332810000 shared&collectionType=Course

# **Description:**

The <script> tag contains the JavaScript code that defines the Person and Employee classes and creates instances of these classes.

The details of each employee are displayed dynamically by modifying the inner HTML of the output <div>.

# **Program:**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>Movie Ticket Booking</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 20px;
        }
        label, button {
            margin: 10px 0;
            display: block;
        #result {
```







```
margin-top: 20px;
        }
   </style>
</head>
<body>
   <h1>Book Movie Tickets</h1>
    <label for="seats">Enter number of seats to book:</label>
   <input type="number" id="seats" min="1" max="6" required>
   <button id="bookButton">Book Tickets
   <div id="result"></div> <!-- This will display the result -->
   <script>
        // Function to calculate the total cost
        function calculateCost(seats) {
           const costPerTicket = 150; // Cost per ticket
           let totalCost = seats * costPerTicket; // Total cost
without discount
            // Apply discount if seats are between 3 and 5
           if (seats > 2 && seats < 6) {
               let discount = calculateDiscount(seats); // Get
discount
               totalCost -= totalCost * (discount / 100); // Apply
discount
           return totalCost; // Return final total cost
        }
        // Function to calculate the discount
        function calculateDiscount(seats) {
           const discountRates = [3, 5, 7, 9, 11]; // Discount
rates for 3, 4, 5 seats
           return discountRates[seats - 3] || 0; // Return the
discount rate
```



Roll No: 22A91A61H2



Exp No: Date:

```
// Event listener for button click
document.getElementById('bookButton').addEventListener('click',
function() {
             const seats =
parseInt(document.getElementById('seats').value);
             const resultDiv = document.getElementById('result');
             resultDiv.innerHTML = ''; // Clear previous results
             // Check booking conditions
             if (seats > 6) {
                 resultDiv.innerHTML = "Booking not allowed for more
than 6 seats.";
             } else if (seats <= 2) {
                 const totalCost = calculateCost(seats);
                 resultDiv.innerHTML = `Total cost for ${seats}
seat(s): Rs. ${totalCost}`;
             } else
                 const totalCost = calculateCost(seats);
                 resultDiv.innerHTML = `Total cost for ${seats}
seat(s): Rs. ${totalCost};
            }
        });
    </script>
</body>
</html>
Output:
    → C ① File C:/Users/Srikanth/Desktop/MSTLAB/4c.html
 > Close 🗷 Post Attendee - Zoo... 🚫 🛂 Downloads 🎩 FresheResume 🍟 LetsUpgrade Progra
 Book Movie Tickets
 Enter number of seats to book:
 Book Tickets
 Total cost for 1 seat(s): Rs. 150
```

Roll No: 22A91A61H2

Exp No: Date:



### 4d

**Aim:**- Course Name: Javascript Module Name: Working with Objects, Types of Objects, Creating Objects, Combining and cloning Objects using Spread operator, Destructuring Objects, Browser Object Model, Document Object Model If a user 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 re-filled cone, a different heading, a different message, and a different color in the background.

https://infyspringboard.onwingspan.com/web/en/viewer/webmodule/lex\_1319702586280410 0000\_shared?collectionId=lex\_18109698366332810000\_shared&collectionType=Course

# **Description:**

The <script> tag contains the JavaScript code that defines the Person and Employee classes and creates instances of these classes.

The details of each employee are displayed dynamically by modifying the inner HTML of the output <div>.

# **Program:**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>Ice Cream Cone Toggle</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            margin: 50px;
            transition: background-color 0.5s;
        }
    </style>
</head>
<body>
    <h1 id="heading">Welcome to the Ice Cream Shop!</h1>
    <div id="cone">Empty Cone</div>
    <div id="message">Click the link to fill the cone!</div>
    <a href="#" id="toggleButton">Click me!</a>
```





```
<script>
        // Initial state
        let isFilled = false;
        // Function to toggle the cone state
        function toggleCone() {
            isFilled = !isFilled; // Toggle the state
            // Update the content based on the state
            document.getElementById("cone").innerText = isFilled ?
"Filled Cone" : "Empty Cone";
            document.getElementById("message").innerText = isFilled
                ? "The cone is now filled! Enjoy your treat!"
                : "Click the link to fill the cone!";
            document.body.style.backgroundColor = isFilled ?
"#FFCCCB": "#ADD8E6"; // Change background color
        // Attach click event to the link
document.getElementById("toggleButton").addEventListener("click",
function(event) {
            event.preventDefault(); // Prevent the default anchor
click behavior
            toggleCone();
        });
    </script>
</body>
</html>
Output:
                   Welcome to the Ice Cream Shop!
```