Aim:

a) Introduction to HTML.

HTML:

- HTML stands for HyperText Markup Language
- HTML is the standard markup language, which is used to create a web pages.
- It is the combination of Hypertext and Markup language.
- Hypertext defines the link between the web pages.
- A markup language is used to define the text document within tag which defines the structure of web pages.
- Different markup languages are: HTML, XHTML, XML, SGML etc.
- HTML5 is the 5th version of HTML.

Features of HTML:

- It is easy to learn and easy to use.
- It is platform-independent.
- Images, videos, and audio can be added to a web page.
- Hypertext can be added to the text.
- It is a markup language.

Advantages:

- HTML is used to build websites.
- It is supported by all browsers.
- It can be integrated with other languages like CSS, JavaScript, etc.

Disadvantages:

- HTML can only create static web pages. For dynamic web pages, other languages have to be used.
- A large amount of code has to be written to create a simple web page.
- The security feature is not good.

b) Write a HTML program to create Hello World Program. [Use <html>, <body>, <title>, comment <!-- --> tags.]

Aim: Write a HTML code to demonstrate use of following text formatting tags: <i>, , <u>, <sup>, <sub>, <h1> to <h6>, , <hr>,
, <div>, .

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO2</title>
</head>
<body>
  <i>This is italics tag</i><br>
  <b>This is bold tag</b><br>
  <u>This is underline tag</u><br>
  <sup>This is sup tag</sup><br>
  <sub>This is sub tag</sub><br>
  <h1>This is heading tag</h1>
  <h2>This is heading tag</h2>
  <h3>This is heading tag</h3>
  <h4>This is heading tag</h4>
  <h5>This is heading tag</h5>
  <h6>This is heading tag</h6>
  This is Paragraph tag.<br>
  <hr>>
  <div>
    This is a division tag
  </div>
  <span>This is a text in span</span>
</body>
</html>
```

Aim: Write a HTML code to create ordered list, unordered list and definition list.

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>PO3</title>
</head>
<body>
 <h3>Ordered list</h3>
 Item-1
   Item-2
   Item-3
 <h3>Unordered list</h3>
 <ul>
   Item-1
   Item-2
   Item-3
 <h3>Defination list</h3>
 <dl>
   <dt>Item-heading</dt>
   <dd>Item-1</dd>
 </dl>
</body>
</html>
```

Aim: Write a HTML code demonstrates use of images, hyperlinks and background attributes.

Aim: Write a HTML code to create a time table of your class using Table tags.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO5</title>
  <style>
    *{
       box-sizing: border-box;
       text-justify: auto;
    }
    body{
       background: rgb(250, 228, 232);
     }
    table{
       width: 60vw;
       border-radius: 12px;
    table,tr,td,th{
       border: 3px solid black;
       border-radius: 12px;
       border-collapse: collapse;
       text-align: center;
       padding: 0.5%;
       margin: auto;
     }
    table,tr,th,td{
       background: rgb(180, 241, 180);
     }
    .heading{
       background: rgb(252, 252, 143);
     }
    .below{
       margin: 50px auto;
       width: 60%;
     }
    .item{
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```

```
margin: 5px auto;
   padding: 2% 2% 2% 10%;
  }
  #teacher{
   float: left;
   width: 47%;
  #student{
   float: left;
   width: 47%;
  }
 </style>
</head>
<body>
 <div class="content">
   CS 2 TIME TABLE
   Days
    8:30-9:30
    9:30-10:30
    10:30-10:45
    10:45-11:45
    11:45-12:45
    11:45-12:45
    1:30-2:30
    2:30-3:30
   Monday
    Calculus<br>
     (HSP)
    ES<br>
     (KS)
    Lunch<br>Break
     WD < br >
     (JT)
    ES<br>
     (KS)
    Refreshment Break
```

```
PP<br>
 (VDB)
Tuesday
Calculus
 (HSP)
DLD<br>
 (JAP)
B1_DLD(JAP)<br/>br>B2_ED(KS)
PP<br>
 (VDB)
Wednesday
Calculus<br>(HSP)
PP<br>
 (VDB)
DLD<br>
 (JAP)
MOOC
B1_DLD(JAP)<br/>br>B2_ED(KS)
Thursday
 MOOC 
 ES < br > (KS) 
PP<br>
 (VDB)
```

```
WD<br>(AJD)
     Friday
      NL<br>(AJD)
      ED<br>(KS)
      WD<br>(JT)
      Library
     Saturday
      WD<br>(JT)
      WD < br>(JT) 
      DLD
        (JAP)
      Sport/Club Activity
     <div class="below">
     <div class="item" id="teacher" >
      >
        ES - Environment Studies<br>
        WD - Web Designing<br>
        PP - Python Programming<br/>

        NL - Networking Laboratory<br>
        ED - Engineering Drafting<br/>
        DLD - Digital Logic Design<br/>
        Calculus
      </div>
     <div class="item" id="subject" >
      >
        KS - Mr. Keyur surti<br>
        AJD - Ms. Ankita J. Desai
        JT - ms. Jinal Tandel<br>
        VDB - Mr. Vishwajit D. Bakrola
        JAP - Mr. Jay A. Patel
        HSP - Mr. Hardik S. Patel
      </div>
   </div>
 </div>
</body> </html>
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```

Aim: Write a HTML code to create a form using the following tags: <form>, <input>(text, password, checkbox, radio, submit, button, reset).

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO6</title>
</head>
<body>
  <h2>This is a simple form</h2>
  <form action="">
    <label for="text">Name</label>
    <input type="text" name="text" id="text">
    <br>
    <label for="password">password</label>
    <input type="password" name="password" id="password">
    <br/>br>
    <input type="checkbox" name="checkbox" id="checkbox">
    <label for="checkbox">Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolor,
quia!</label><br>
    <label for="radio"></label>
    <input type="radio" name="radio" id="male"><label for="male">Male</label>
    <input type="radio" name="radio" id="female"><label for="female">Female</label>
    <br>
    <input type="submit" name="submit" id="submit">
    <input type="reset" name="reset" id="reset">
  </form>
</body>
</html>
```

Aim: Write a HTML code to create a form using the following tags: <textarea>, <select>, <option>, <fieldset>, <legend>, <button>.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO7</title>
</head>
<body>
  <h3>Simple Form</h3>
  <form action="">
    <fieldset>
      <legend>This is a form</legend>
      <label for="feedback">Feedback :</label><br>
      <textarea name="" id="feedback" cols="30" rows="10"></textarea><br>
      <select name="why" id="why">
         <option value="none">None</option>
         <option value="male">male</option>
         <option value="female">female</option>
      </select>
      <button>SUBMIT</button>
    </fieldset>
  </form>
</body>
</html>
```

Aim: Write internal and inline CSS code to design your product page using the following selector: body, h1, p, hr, img. Apply following properties: color, font, text, background, border.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO8</title>
</head>
<body>
  <div class="container">
    <div class="left">
      <img src="images/gopro.jpg" alt="Unable to fetch image">
      <div class="left-buttons">
        <button id="cart">Add to cart</button>
        <button id="buy">Buy now</button>
      </div>
    </div>
    <div class="right">
      <h3>GoPro Max Rexhargable battery Sports abd action camera (Black)</h3>
      <br><br><br>><br>>
      <h3>44,999rs <strike>49,999</strike></h3>
      >
        <h4>Availanle Offers</h4>
        ul>
           <b>Bank Offer</b>&nbsp;10% off on ICIC Credit Cards
           <b>Bank Offer</b>&nbsp;15% Cashback on using GoPro Payment
Method
           <b>Partner Offer</b>&nbsp;Flat 10% off on UPI payment through
Paytm
           <b>Partner Offer</b>&nbsp;GST Invoice Available! Save Upto 28% for
bussiness purpose.
        </div>
  </div>
  <div class="more-details">
    <div>
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```

```
<h1>Specification</h1>
  </div>
  <div>
    <h4>In the Box</h4>
    Camera, Charger, Battery, Manual
  </div>
  <div>
    <h3>General</h3>
     Brand
      Go Pro
     Ports
      Type C, Type A
     Display Type
       LCD 
     Display Resolution
       1080p 
     Battey Type
      Rechargable Lithium Ion Battery
     </div>
 </div>
</body>
</html>
```

Aim: Write a CSS code to design your product page using class, id and pseudo class selectors. Apply following properties: color, font, text, background, border, margin, padding, liststyle and position using concept of class(.) and id(#), pseudo class selector, internal and external CSS.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO9</title>
  <style>
     *{
       box-sizing: border-box;
       margin: 0px 0px;
       padding: 0px 0px;
     }
    .navbar{
       margin: 10px 10px;
       display: flex;
    .navbar ul{
       margin-left: 80%;
       overflow: hidden;
     }
     .navbar ul li{
       display: flex;
       justify-content: center;
       list-style: none;
       float: right;
    .navbar img{
       width: 100px;
       height: 35px;
     .navbar ul li a{
       padding: 5px;
       text-decoration: none;
     }
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```

```
li.right-nav{
  float: right;
}
li a#home{
  padding: 5px;
  background: orange;
li a#home:hover{
  background: yellow;
}
.container{
  display: flex;
.container div{
  margin-top: 30px;
  width: 50%;
}
.left{
  text-align: center;
  align-items: center;
}
. left . left-buttons \{
  margin-top: 10px;
  width: 80%;
  display: flex;
  margin-left: 70px;
  justify-content: center;
}
.left img{
  border: 3px solid rgb(191, 191, 191);
  padding: 20px;
  width: 80%;
}
.left button{
  text-transform: uppercase;
  font-weight: bold;
  margin: 2px;
  width: 100%;
  padding: 5px;
  font-size: 15px;
}
#cart{
  background: yellow;
}
```

```
#buy{
       background: red;
     button:hover{
       color: rgb(191, 171, 167);
     }
     .right h3{
       margin: 30px 0px;
     }
     .right h4{
       margin: 20px 0px;
     .right div.offers{
       margin-top: 60px;
       text-align: justify;
       width: 700px;
     .offers ul li{
       list-style: square url("svg/tag.svg");
     }
     .more-details{
       margin-top: 20px;
     }
     .more-details div{
       border: 5px double black;
       border-collapse: collapse;
       text-align: left;
       padding: 10px;
     }
     #Original_Price{
       margin-left: 20px;
       font-size: 15px;
       text-decoration: line-through
     #item_amount{
       font-weight: 100;
       color: red;
     }
  </style>
</head>
<body>
  <div class="navbar">
     <img src="images/goprologo.png" alt="" id="logo">
     <ul>
Wed Designing (IT3007)
```

```
cli class="right-nav"><a id="home">Home</a>
      cli class="right-nav"><a>About</a>
      cli class="right-nav"><a>Contact</a>
  </div>
  <div class="container">
    <div class="left">
      <img src="images/gopro.jpg" alt="Unable to fetch image">
      <div class="left-buttons">
        <button id="cart">Add to cart</button>
        <button id="buy">Buy now</button>
      </div>
    </div>
    <div class="right">
      <h3>GoPro Max Rexhargable battery Sports abd action camera (Black)</h3>
      <h3>44,999rs <span id="Original_Price">49,999</span><br><span
id="item_amount">hurry only 15 left</span></h3>
      <div class="offers">
        <h4>Available Offers</h4>
          <b>Bank Offer</b>&nbsp;10% off on ICIC Credit Cards
          <b>Bank Offer</b>&nbsp;15% Cashback on using GoPro Payment
Method
          <b>Partner Offer</b>&nbsp;Flat 10% off on UPI payment through
Paytm
          <b>Partner Offer</b>&nbsp;GST Invoice Available! Save Upto 28% for
bussiness purpose.
        </u1>
      </div>
    </div>
  </div>
  <div class="more-details">
    <div>
      <h1>Specification</h1>
    </div>
    <div>
      <h4>In the Box</h4>
      Camera, Charger, Battery, Manual
    </div>
    <div>
      <h3>General</h3>
```

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```
Brand
      Go Pro
    <th>Ports
     Type C, Type A
    Display Type
      LCD
    Display Resolution
      1080 p 
    Battey Type
      Rechargable Lithium Ion Battery
    </div>
 </div>
</body>
</html>
```

Aim: Create responsive HTML web pages using Bootstrap4 Framework.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO10</title>
    k rel="stylesheet"
      href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
    <script
      src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
    <script
      src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
  </head>
  <body>
    <nav class="navbar navbar-default" style="padding-top: 20px;">
      <div class="container-fluid">
         <div class="navbar-header">
           <a class="navbar-brand" href="#">WebSiteName</a>
         </div>
         cli class="active"><a href="#">Home</a>
           <a href="#">Page 1</a>
           <a href="#">Page 2</a>
           <a href="#">Page 3</a>
         </div>
    </nav>
    <div class="container-fluid" style="border: solid; padding: 10px;">
      <div class="row" style="border: solid; padding: 10px;">
         <div class="col-sm-6" style="border: solid;">
           <h3>Lorem ipsum dolor sit, amet consectetur adipisicing
             elit. Veniam atque, modi dicta repudiandae quos deleniti
             numquam aperiam vitae beatae laudantium at a labore qui
             quasi, ratione eaque fugit maxime reiciendis.</h3>
         </div>
         <div class="col-sm-6" style="border: solid;">
           <h3>Lorem, ipsum dolor sit amet consectetur adipisicing
             elit. Laudantium temporibus tenetur ea maxime. Labore id
```

```
dignissimos quae, veniam eveniet, quo inventore
              corporis, culpa tenetur voluptate odit. Quia beatae
              fugit voluptate.</h3>
         </div>
       </div>
       <div class="row" style="text-align: center; padding: 10px;">
         <div class="col-sm-4">
           <img src="https://picsum.photos/200" alt="">
         </div>
         <div class="col-sm-4">
           <img src="https://picsum.photos/200" alt="">
         </div>
         <div class="col-sm-4">
           <img src="https://picsum.photos/200" alt="">
         </div>
       </div>
    </div>
  </body>
</html>
```

Aim: Write a CSS code for applying animation, shadows, text effects and gradients to design a web page.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO11</title>
    <style>
    body{
       background-image: linear-gradient(to right, darkblue, blue, skyblue, white);
    }
    h1 {
       text-shadow: 2px 2px 4px #000000;
       font-size: 400%;
    }
    div {
       position: relative;
       text-align: center;
       animation-name: example;
       animation-duration: 4s;
       animation-iteration-count: infinite;
    }
    @keyframes example {
       0% {
         color: white;
         left: 0px;
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```

```
top: 0px;
       }
      25% {
         color: skyblue;
         left: 200px;
         top: 0px;
       }
      50% {
         color: darkblue;
         left: 200px;
         top: 200px;
       }
      75% {
         color: skyblue;
         left: 0px;
         top: 200px;
       100% {
         color: white;
         left: 0px;
         top: 0px;}
    }
  </style>
  </head>
  <body>
    <div>
       <h1>CSS ANIMATION</h1>
    </div>
  </body>
</html>
```

Aim: Write a JavaScript to show alert, confirm and prompt boxes.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO12</title>
    <style>
    body{
      text-align: center;
    }
    button{
      height: 50px;
      width: 100px;
    }
  </style>
  </head>
  <body>
    <h2>JavaScript Alert Confirm & prompt box</h2>
    <button onclick="myFunction()">Alert</button><br><br>
    <button onclick="myFunction1()">Prompt</button><br><br>
    <button onclick="myFunction2()">Confirm</button><br><br>
    <script>
    function myFunction() {
      alert("I am an alert box!");
    }
```

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```
function myFunction1() {
    prompt("I am an prompt box!");
}
function myFunction2() {
    confirm("I am an confirm box!");
}
</script>
</body>
</html>
```

Aim: Write a JavaScript function to find a maximum of three numbers taken from the user using if-else and print it.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO13</title>
    <style>
       @import url('https://fonts.googleapis.com/css2?family=Koulen&display=swap');
         box-sizing: border-box;
         font-size: 20px;
         font-family: 'Koulen', cursive;
       }
       #one{
         display: flex;
         justify-content: center;
         margin-top: 300px;
       }
       div{
         background: linear-gradient(to bottom,purple,skyblue);
         display: block;
         width: 500px;
         margin: auto;
         border-radius: 12px;
         padding: 30px;
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```

```
}
input[type=number]::-webkit-inner-spin-button,
input[type=number]::-webkit-outer-spin-button {
  -webkit-appearance: none;
  margin: 0;
. Number Input \{\\
  width: 100%;
  text-align: right;
  text-transform: uppercase;
  border: 2px solid green;
  height: 40px;
  margin: 10px 0px;
  padding: 10px;
  border-radius: 8px;
}
td{
  color: white;
button{
  background: linear-gradient(to left, purple,skyblue,white);
  color: black;
  font-size: 25px;
  font-weight: 400;
  border-radius: 8px;
  margin-top: 10px;
}
p{
  color: red;
  font-size: 20px;
```

```
}
   </style>
 </head>
 <body>
   <div id="one">
     <div>
      First Number :
          <input type="number" name="a" id="first" placeholder="Enter first
number" class="NumberInput" /> 
        Second Number :
          <input type="number" name="b" id="second" placeholder="Enter
second number" class="NumberInput" /> 
        Third Number :
          <input type="number" name="c" id="third" placeholder="Enter third
number" class="NumberInput" /> 
         <button onclick="biggest()">CHECK</button> 
        </div>
   </div>
   <script type="text/javascript">
     function biggest()
```

```
{
      var num1,num2,num3;
      num1 = parseInt(document.getElementById ("first").value);
      num2 = parseInt(document.getElementById ("second").value);
      num3 = parseInt(document.getElementById ("third").value);
      if(num1 > num2 && num1 > num3)
         document.getElementById ("num").innerHTML = num1+" is the biggest number";
      }
      else
      if(num2 > num3 && num2 > num1)
        document.getElementById ("num").innerHTML = num2+" is the biggest number";
      }
      else
         document.getElementById ("num").innerHTML = num3+"is the biggest number";
      </script>
  </body>
</html>
```

Aim: Print date and time on click of a button using inner HTML in JavaScript.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO14</title>
  <style>
    button{
      height: 50px;
      width: 100px;
    }
    body{
      text-align: center;
    }
    p{
      font-size: 50px;
    }
  </style>
</head>
<body>
  <h1>Click to get Date and Time</h1>
  <button type="button" onclick="time()">Click here.</button>
  <script>
    function time(){
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```

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```
document.getElementById('date_time_button').innerHTML = Date()
}
</script>
</body>
</html>
```

Aim: Write a HTML/JavaScript code to create a simple calculator.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO15</title>
    <style>
    .calculator {
       padding: 10px;
       border-radius: 1em;
       height: 380px;
       width: 400px;
       margin: auto;
       background: radial-gradient(white,orange,red,blue,purple);
       box-shadow: rgba(0, 0, 0, 0.19) 0px 10px 20px, rgba(0, 0, 0, 0.23) 0px 6px 6px;
     }
    .display-box {
       font-family: 'Orbitron', sans-serif;
       background-color: white;
       border: solid rgb(240, 128, 128) 0.5px;
       color: black;
       border-radius: 2px;
       width: 100%;
       height: 65%;
       font-size: 20px;
```

```
border-top-left-radius: 12px;
    border-bottom-left-radius: 12px;
  }
  .button {
    font-family: 'Orbitron', sans-serif;
    background-color: #472b33;
    color: white;
    border: solid rgb(240, 185, 185) 0.5px;
    width: 100%;
    border-radius: 12px;
    height: 70%;
    outline: none;
    font-size: 20px;
  }
  .button:hover{
    background-color: #440254;
  }
  .button:active {
    background: #e5e5e5;
    -webkit-box-shadow: inset 0px 0px 5px #c1c1c1;
    -moz-box-shadow: inset 0px 0px 5px #c1c1c1;
    box-shadow: inset 0px 0px 5px #c1c1c1;
  }
</style>
</head>
<body>
   <input class="display-box" type="text"
           id="result" disabled />
```

```
<input class="button" type="button" value="C"
      onclick="clearScreen()"
      style="background-color: #85284d;border-top-left-radius:
      0px;border-bottom-left-radius: 0px" /> 
<input class="button" type="button" value="1"
      onclick="display('1')" /> 
  <input class="button" type="button" value="2"
      onclick="display('2')" /> 
  <input class="button" type="button" value="3"
      onclick="display('3')" /> 
  <input class="button" type="button" value="/"
      onclick="display('/')" /> 
<input class="button" type="button" value="4"
      onclick="display('4')" /> 
  <input class="button" type="button" value="5"
      onclick="display('5')" /> 
  <input class="button" type="button" value="6"
      onclick="display('6')" /> 
  <input class="button" type="button" value="-"
      onclick="display('-')" /> 
<input class="button" type="button" value="7"
      onclick="display('7')" /> 
  <input class="button" type="button" value="8"
      onclick="display('8')" />
```

```
<input class="button" type="button" value="9" onclick="display('9')" />
<input class="button" type="button" value="+" onclick="display('+')" />
<input class="button" type="button" value="."
             onclick="display('.')" /> 
         <input class="button" type="button" value="0"
             onclick="display('0')" /> 
         <input class="button" type="button" value="="onclick="calculate()"
             style="background-color: #440244;" /> 
         <input class="button" type="button" value="*"
             onclick="display('*')" /> 
      <script>
    function clearScreen() {
      document.getElementById("result").value = "";
    }
    // This function display values
    function display(value) {
      document.getElementById("result").value += value;
    }
    // This function evaluates the expression and return result
    function calculate() {
      var p = document.getElementById("result").value;
      var q = eval(p);
      document.getElementById("result").value = q;
    }
  </script></body></html>
Wed Designing (IT3007)
```

Aim: Write JavaScript to validate book issue form.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO16</title>
  <style>
    body {
       font-family: Calibri;
    input[type=number]::-webkit-inner-spin-button,
       input[type=number]::-webkit-outer-spin-button {
         -webkit-appearance: none;
         margin: 0;
       }
    input[type=text],
    input[type=email],
    input[type=textarea],
    input[type=number],
    select {
       width: 100%;
       padding: 12px 20px;
       margin: 8px 0;
       display: inline-block;
       border: 1px solid #ccc;
       border-radius: 4px;
       box-sizing: border-box;
    input[type=submit],
    input[type=reset] {
       width: 100%;
       background-color: hotpink;
       color: white;
       padding: 14px 20px;
       margin: 8px 0;
       border: none;
       border-radius: 4px;
Wed Designing (IT3007)
```

```
cursor: pointer;
    }
    input[type=submit]:hover,
    input[type=reset]:hover{
      opacity: 0.8;
      color: black;
    form {
      text-align: center;
      font-family: Calibri;
      font-size: 20px;
      border: 3px solid black;
      width: 600px;
      margin: 20px auto;
    }
    td {
      padding: 10px;
    }
    td:first-child {
      text-align: right;
      font-weight: bold;
    }
    td:last-child {
      text-align: left;
    }
    h1 {
      text-align: center;
    }
  </style>
</head>
<body>
  <h1>Validate book issue form</h1>
  <form method="" action="" name="reg_form" onsubmit="return validate()">
    <label>First Name: </label>
           <input type="text" name="fname" placeholder="First Name">
         <label>Last Name: </label>
```

```
<input type="text" name="lname" placeholder="Last Name">
 <label>Address: </label>
 <input type="textarea" size="50" name="address" placeholder="Address">
<label>Gender: </label>
 <input type="radio" name="gender" value="male">Male
   <input type="radio" name="gender" value="femele">Female
 <label>Email Id: </label>
 <input type="email" name="email" placeholder="example@gmail.com">
<label>Mobile: </label>
 <input type="number" name="mobile">
 <label>BOOKS: </label>
 <select name="Books">
     <option value="select Books">select Books
     <option value="HTML">HTML</option>
     <option value="CSS">CSS</option>
     <option value="JavaScript">JAVASCRIPT</option>
     <option value="Java">JAVA</option>
   </select>
```

```
<input type="submit" name="submit" value="Submit">
         <input type="reset" name="reset" value="Reset">
    </form>
<script>
  function validate() {
    var fname = document.reg_form.fname;
    var lname = document.reg_form.lname;
    var address = document.reg_form.address;
    var gender = document.reg_form.gender;
    var email = document.reg_form.email;
    var mobile = document.reg_form.mobile;
    var Books = document.reg_form.Books;
    if (fname.value.length <= 0) {
       alert("Name is required");
       return false;
    if (lname.value.length \leq 0) {
       alert("Last Name is required");
       return false;
     }
    if (address.value.length <= 0) {
       alert("Address is required");
       return false;
    if (gender.value.length <= 0) {
       alert("Gender is required");
       return false;
    if (email.value.length <= 0) {
       alert("Email Id is required");
       return false;
    if (mobile.value.length <= 0) {
       alert("Mobile number is required");
       return false;
    if (Books.value == "select course") {
       alert("Books is required");
       return false;
```

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

Aim: Write a code to implement a dynamic web page for adding and deleting elements.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO17</title>
    <style>
    *{
       font-size: 25px;
    }
    h1,
    h2 {
       color: hotpink;
       display: flex;
       justify-content: center;
     }
    #mybutton {
       display: block;
       margin: 0 auto;
     }
    #innerdiv {
       display: flex;
       flex-direction: column;
       justify-content: center;
       align-items: center;
     }
    #myList {
       align-content: center;
    #deldiv{
       display: block;
       width: 900px;
       align-items: center;
       text-align: center;
```

```
}
    li{
      list-style: none;
    button{
      font-weight: 900;
      border-radius: 8px;
    }
    button:hover{
      opacity: 0.7;;
    }
  </style>
  </head>
  <body>
    <h1>
      Saurabh Yadav<br>
    </h1>
    <div id="innerdiv"></div>
    <h2>click on "click me" to add element</h2>
    <button id="mybutton">
      click me
    </button><b><br></b>
    <div id="deldiv">
      <h3>Elemet will delete one-by-one after clicking on "Delete" button</h3>
      ul id="myList">
         Coffee
         Tea
         Milk
      <button onclick="myFunction()">Delete</button>
    </div>
    <script>
    document.getElementById("mybutton").
      addEventListener("click", function () {
         document.getElementById("innerdiv").
           innerHTML = "<h3>This is a Added element</h3>";
       });
    function myFunction() {
      const list = document.getElementById("myList");
      list.removeChild(list.firstElementChild);
    }
  </script>
  </body>
</html>
Wed Designing (IT3007)
```

Aim: Write a JavaScript program which initializes jQuery and accesses various properties of html tags using jQuery methods.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO18</title>
    <style>
    p {
       font-size: 20px;
       color: red;
    }
    body {
       text-align: center;
    #panel,
    #flip {
       padding: 5px;
       text-align: center;
       background-color: #e5eecc;
       border: solid 1px #c3c3c3;
    #panel {
       padding: 50px;
       display: none;
    }
    span{
       display: block;
       margin: 0px 20px;
    }
  </style>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
  </head>
  <body>
    If you click on me, I will disappear.
    <span>Name: <input type="text" id="test"></span>
    <button>Show </button>
    <div id="flip">Click to slide down panel</div>
```

```
<div id="panel">Hello world</div>
    <script>
       $(document).ready(function () {
         $("p").click(function() {
            $(this).hide();
          });
       });
       $(document).ready(function () {
         $("button").click(function () {
            alert("Value: " + $("#test").val());
          });
       });
       $(document).ready(function () {
         $("#flip").click(function () {
            $("#panel").slideDown("slow");
          });
       });
    </script>
  </body>
</html>
```

Aim: Write a code to read and update the value of textbox using jQuery.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PO19</title>
    <style>
    button {
       height: 50px;
       width: 200px;
    }
    body {
       text-align: center;
    }
  </style>
    <script
       src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  </head>
  <body>
    Input Field: <input type="text" name="userInput" placeholder="click"</p>
         to add text">
    <button id="set">
       click to Add text
    </button>
    <script>
    $(document).ready(function () {
       $("#set").click(function () {
         $("input:text").val("Hello World!");
       });
    });
  </script>
  </body>
</html>
```

Aim:

- a) Write a jQuery function to find a maximum of three numbers taken from the user.
- b) Print date and time on click of a button using the html method of jQuery

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PO20</title>
  <!-- CSS -->
  <style>
       @import url('https://fonts.googleapis.com/css2?family=Koulen&display=swap');
         box-sizing: border-box;
         font-size: 20px;
         font-family: 'Koulen', cursive;
       }
       #one{
         display: flex;
         justify-content: center;
         margin-top: 300px;
       div{
         background: linear-gradient(to bottom,red, orange,yellow,white);
         display: block;
         width: 500px;
         margin: auto;
         border-radius: 12px;
         padding: 30px;
       input[type=number]::-webkit-inner-spin-button,
       input[type=number]::-webkit-outer-spin-button {
         -webkit-appearance: none;
         margin: 0;
       .NumberInput\{
```

```
width: 100%;
         text-align: right;
         text-transform: uppercase;
         border: 2px solid green;
         height: 40px;
         margin: 10px 0px;
         padding: 10px;
         border-radius: 8px;
       }
       td{
         color: white;
       button{
         background: linear-gradient(to left, red, orange, yellow, white);
         color: black;
         font-size: 25px;
         font-weight: 400;
         border-radius: 8px;
         margin-top: 10px;
         cursor: pointer;
       button:hover{
         transition-delay: 3s;
         background: linear-gradient(to left, white, yellow, orange, red);
       }
      p{
         color: red;
         font-size: 20px;
  </style>
  <!-- Jquery CDN -->
  <script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-</pre>
H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk="
crossorigin="anonymous"></script>
</head>
<body>
  <div id="one">
    <div>
       First Number :
           <input type="number" name="a" id="first" placeholder="Enter first
number" class="NumberInput" /> 
Wed Designing (IT3007)
```

```
Second Number :
         <input type="number" name="b" id="second" placeholder="Enter second
number" class="NumberInput" /> 
       Third Number :
         <input type="number" name="c" id="third" placeholder="Enter third
number" class="NumberInput" /> 
        <button onclick="LargestNum()">CHECK</button> 
        <button onclick="DisplayDateTime()">SHOW DATE
TIME</button> 
       </div>
 </div>
 <script>
   function LargestNum(){
     num1 = ("#first").val();
     num2 = ("#second").val();
     num3 = ("#third").val();
     var array = [num1,num2,num3];
     var largest = Math.max.apply( null, array)
     console.log(largest)
     $("#num").html(largest + " is the largest numbr.");
   function DisplayDateTime(){
     var date = new Date()
     $("#num").html(date);
 </script>
</body>
</html>
```

Aim: Write JavaScript code to validate book issue form using jQuery validate.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
       <script
src="https://cdn.jsdelivr.net/jquery.validation/1.16.0/jquery.validate.min.js"></script>
       <script src="https://cdn.jsdelivr.net/jquery.validation/1.16.0/additional-</pre>
methods.min.js"></script>
       <style>
              body{
                      text-align: center;
       font-size: 15px;
               }
    form{
       font-size: 25px;
       color: black;
       font-weight: bolder;
    fieldset{
       background: aquamarine;
       align-items: center;
       text-align: center;
       width: 80%;
       border: 4px solid red;
     }
    table{
       width: 80%;
       margin: 100px auto;
     }
    table tr{
       width: 200px;
     }
    table tr td{
       background: rgb(1, 177, 118);
```

```
width: 200%;
  padding: 15px;
}
input{
  height: 30px;
  width: 300px;
input[type=submit]{
  width: auto;
  height: auto;
  padding: 8px;
  font-size: 25px;
  margin: 10px auto;
  background-color: aquamarine;
  border: none;
  font-weight: bold;
  text-transform: uppercase;
}
input[type=submit]:hover{
  opacity: 0.6;
}
label{
  color: blue;
.pre_label{
  color: black;
}
  </style>
  <script>
          $().ready(function() {
                 $("#bookissu").validate({
                         rules: {
                                firstname: "required",
                                lastname: "required",
                                address: {
                                        required: true,
                                        minlength: 2
                                },
                                email: {
                                        required: true,
                                        email: true
                                },
                                book: {
                                        required: true,
```

```
text: true
                                },
                                agree: "required"
                          },
                          messages: {
                                firstname: "Please enter your firstname",
                                lastname: "Please enter your lastname",
                                address: {
                                       required: "Please enter a address",
                                       minlength: "Your address must consist of at
least 2 characters"
                                },
                          }
                   });
             });
      </script>
</head>
<body>
  <form class="cmxform" id="bookissu" method="get" action="form-handler.html"</pre>
autocomplete="off">
             <fieldset>
                   <legend>BOOK Issue Form</legend>
      >
             <label for="firstname" class="pre_label">First Name</label>
          <input id="firstname" name="firstname" type="text"></input>
          <label for="lastname" class="pre_label">Last Name</label>
          <input id="lastname" name="lastname" type="text"></input>
          <label for="address" class="pre_label">Address</label>
```

```
<input id="address" name="address" type="text"></input>
         <label for="email" class="pre_label">Email</label>
         <input id="email" name="email" type="email"></input>
        >
          <label for="text" class="pre_label">Book Name</label>
         <input id="book" name="book" type="book"></input>
         <input class="submit" type="submit" value="submit">
         </fieldset>
     </form>
</body>
</html>
```