

Experiment No: 01(a)

Experiment Name: Design a simple HTML webpage to show your resume (the page must contain <HTML>, <Head /Title>, <Meta Content>, <Body> and other HTML tags to format Body contents).

Objective: The objective of this experiment is to design a simple HTML webpage to show the resume.

Code for CV.html :

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport" content = "width =
        device-width, initial-scale = 1.0">
    <meta name = "description" content = "CV of
        Maksuda Hasan Parima">
<title> CV </title>
<style>
    body {
        width: 500px;
        margin: 0 auto;
    }
    .center {
        text-align: center;
    }
    table {
        width: 100%;
        border-collapse: collapse;
    }

```

```
        td {  
            border: 1px solid #333;  
            padding: 5px;  
        }  
  
</style>  
</head>  
<body>  
<h1 class = "center"> Md. Suda Hasan Parvin </h1>  
<blockquote class = "center"><i> Tech enthusiast  
and backend developer </i> </blockquote>  
<h2 class = "center" style = "text-decoration:  
underline;"> Education </h2>  
  
<table class = "table">  
    <thead>  
        <tr>  
            <th> Institute </th>  
            <th> Examination / Degree </th>  
            <th> Board </th>  
            <th> Passing Year </th>  
        </tr>  
    </thead>  
    <tbody>  
        <tr>  
            <td> Dhaka City College </td>  
            <td> B. Sc. in CSE </td>  
            <td> National University College </td>  
            <td> 2024 (expected) </td>  
        </tr>  
    </tbody>  
</table>
```

```
<tr>
  <td> Govt. Bangabandhu College </td>
  <td> HSC </td>
  <td> Dhaka </td>
  <td> GPA 4.17 of 5 </td>
</tr>
</tbody>
</table>

<h2 class = "center" style = "text-decoration: underline;"> Skills </h2>

<ul>
  <li> HTML </li>
  <li> CSS </li>
  <li> Javascript </li>
  <li> C++ </li>
  <li> Python </li>
</ul>
</body>
</html>
```

Experiment No: 1(b)

Experiment Name: Using text links design a simple website to navigate between different pages (minimum two pages and one page must contain a image link and another page contain 3×4 table).

Objective: The objective of this experiment is to navigate between different pages.

Code for Home page :

```
<!DOCTYPE html>
<html>
<head>
    <title> Simple Website </title>
</head>
<body>
    <h1> Welcome to My Simple Website </h1>
    <p><a href = "image.html"> Go to Image page </a>
    </p>
    <p><a href = "table.html"> Go to Table page </a></p>
</body>
</html>
```

Code for table :

```
<!DOCTYPE html>
<html>
<head>
    <title> Table Page </title>
</head>
<body>
    <h1> Table Page </h1>
    <p><a href = "Home.html"> Back to Home </a></p>
```

<P> Go to Image page </P>

<table border = "1">

<tr>

<th> Name </th>

<th> Roll </th>

<th> Section </th>

</tr>

<tr>

<td> Tanimu </td>

<td> 102 </td>

<td> B </td>

</tr>

<tr>

<td> Affifa </td>

<td> 10 </td>

<td> B </td>

</tr>

<tr>

<td> Sinthi </td>

<td> 108 </td>

<td> B </td>

</tr>

</table>

</body>

</html>

Code for Image :

```
<!DOCTYPE html>
<html>
<head>
    <title> Image Page </title>
</head>
<body>
    <h1> Image Page </h1>
<p><a href = "Home.html"> Back to Home </a></p>
<p><a href = "table.html"> Go to Table Page </a></p>
<a href = "dec.png"> <img src = "dec.png" alt =
    Link to Image > </a>
</body>
</html>
```

Experiment No: 2(a)

Experiment Name: Design a simple website using CSS
Containing) formatted text, forms, tables and link styles
(must use three ways of inserting) CSS external,
internal and inline style).

Objective: The objective of this experiment is to design
a website using CSS.

Code for Index:

```
<!DOCTYPE html>
<html>
<head>
    <title> Simple Website </title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
<h1> Welcome to My Website </h1>
<p> This is a simple website with formatted
    text, a table and link styles. </p>
<table>
    <tr>
        <th> Header 1 </th>
        <th> Header 2 </th>
    </tr>
    <tr>
        <td> Data 1 </td>
        <td> Data 2 </td>
    </tr>
</table>
<a href="https://www.example.com"> Visit Example </a>
</body>
```

</html>

Code for Internal:

```
<!DOCTYPE html>
<html>
  <head>
    <title> Simple Website </title>
  </head>
  <body>
    <style>
      p {
        font-size: 18px;
        text-align: center;
        color: #555;
      }
    </style>
    <h1> Welcome to My Website </h1>
    <p> This is a simple website with formatted
        text, a table and link style. </p>
    <table>
      <tr>
        <th> Header 1 </th>
        <th> Header 2 </th>
      </tr>
      <tr> <td> Data 1 </td>
            <td> Data 2 </td>
          </tr>
    </table>
```

Visit
Example

</body>
</html>

Code for Inline:

```
<!DOCTYPE html>
<html>
<head>
    <title> Simple website </title>
    <link>
        <body>
            <h1 style = "color: #333; text-align: center;">
                Welcome to My Website </h1>
```

```
<p style = "font-size: 18px; text-align: center;
    color: #555;">
```

This is a simple website with formatted text,
a table and link styles. </p>

```
<table style = "border-collapse: collapse;
    width: 50%; margin: 20px auto;">
    <tr>
        <th style = "border: 1px solid #333;
            text-align: center;"> Header1 </th>
        <th style = "border: 2px solid #333;
            text-align: center;"> Header2 </th>
    </tr>
```

```
<tr>
  <td style="border: 1px solid #333;
    text-align: center;"> Data 1 </td>
<td style="border: 1px solid #333;
    text-align: center;"> Data 2 </td>
</tr>
</table>
<a href="https://www.example.com" style=
  "color: #0077b5; text-decoration:
  none;">visit Example</a>
</body>
</html>
```

Code for style:

```
h1 {
  color: #333;
  text-align: center;
}
table {
  border-collapse: collapse;
  width: 50%;
  margin: 20px auto;
}
table, th, td {
  border: 1px solid #333;
  text-align: center;
}
a {
  color: #0077b5;
  text-decoration: none;
}
a:hover {
  color: #004a86;
  text-decoration: underline;
}
```

Experiment No: 2(b)

Experiment Name: Using CSS menu, design a simple website to navigate between different pages(minimum) ; three pages and each must contain heading, paragraph, text formatting tag and mouseover links to back home page).

Objective: The objective of this experiment is to design a simple website using CSS menu.

Code for about.html:

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport" content = "width =
        device-width, initial-scale=1.0">
<title> Home </title>
<style>
    .navigation {
        background-color : antiquewhite ;
        display : flex ;
        align-items : center ;
    }
    .navigation ul {
        display : flex ;
        list-style : none ;
    }
    .navigation .nav-item a {
        text-decoration : none ;
        padding : 24px 10px ;
    }
</style>
```

```
• nav-item a:hover {  
    background-color: rgba(0, 0, 0, 0.3);  
}  
  
<(style>  
<head>  
<body>  
    <nav class="navigation">  
        <h1>E-SITE </h1>  
        <ul>  
            <li class="nav-item"><a href=  
                "index.html">Home </a></li>  
            <li class="nav-item"><a href=  
                "about.html">About </a></li>  
            <li class="nav-item"><a href=  
                "contact.html">Contact </a></li>  
        </ul>  
    <main>  
        <h2> About </h2>  
        <p>This is a lab project. </p>  
    </main>  
</body>  
</html>
```

Code for contact.html:

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport" content = "width =
        device-width, initial-scale = 1.0">
<title> Home </title>
    .navigation {
        background-color : antiquewhite;
        display : flex;
        align-items : center;
    }
    .navigation ul {
        display : flex;
        list-style : none;
    }
    .navigation .nav-item a {
        text-decoration : none;
        padding : 20px 10px;
    }
    .nav-item a : hover {
        background-color : rgba(0, 0, 0, 0.3);
    }
</style>
</head>
<body>
    <nav class = "navigation">
        <h1> E-SITE </h1>
        <ul>
```

```
<li class = "nav-item"><a href = "#index.html"> Home </a></li>  
<li class = "nav-item"><a href = "#about.html"> About </a></li>  
<li class = "nav-item"><a href = "#contact.html"> Contact </a></li>  
</ul>  
</nav>  
<main>  
    <h1> Contact </h1>  
    <p> Contact for more any further details</p>  
</main>  
</body>  
</html>
```

Code for Index.html:

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport" content = "width =
        device-width, initial-scale = 1.0">
    <title> Home </title>
    <style>
        navigation {
            background-color: antiquewhite;
            display: flex;
            align-items: center;
        }
        .navigation ul {
            display: flex;
            list-style: none;
        }
        .navigation .nav-item a {
            text-decoration: none;
            padding: 24px 10px;
        }
        .nav-item a:hover {
            background-color: rgba(0, 0, 0, 0.3);
        }
    </style>
    </head>
    <body>
        <nav class = "navigation">
            <h1> E-SITE </h1>
            <ul>
```

```
<li class = "nav-item"><a href = "index.html">  
    Home </a></li>  
<li class = "nav-item"><a href = "about.html">  
    About </a></li>  
<li class = "nav-item"><a href = "contact.  
    html"> Contact </a></li>  
</ul>  
</nav>  
<main>  
    <h1> Welcome to E-SITE home page! </h1>  
    <p> Navigate through the website using  
        the navigation links. </p>  
</main>  
</body>  
</html>
```

Experiment No: 3 (a)

Experiment Name: Design a form that contains a text fields,"Text Area," "check boxes," "Multiple Check boxes," "Radio Buttons," "List Boxes," "password fields," "Submit button," "Reset Button" and store the value of this form into My-SQL database and show the stored information into another page using PHP program.

Objective: The objective of this experiment is to design a form using My-SQL database and show the stored information into another page using PHP program.

Code for index.html:

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport"
        content = "width = device-width, initial-
        scale = 1.0">
    <title> Simple form </title>
</head>
<body>
    <form
        action = "http://127.0.0.1:8080/show.
                    php"
        method = "post">
        <label for = "name"> Name: </label>
        <input type = "text" id = "name"
            name = "name" ><br>
```

```
<label for="email">Email:</label>
<input type="email" id="email"
name = "email"><br>
<label for="message">Message:</label>
<textarea id="message" name="message"
rows="4" cols="50"></textarea><br>
<label for="subscribe">Subscribe to
newsletter:</label>
<input type="checkbox" id="subscribe"
name = "subscribe"><br>
<label>Interests:</label>
<input type="checkbox" id="cricket"
name = "cricket">
<label for="football">football</label>
<br> <label>Gender:</label>
<input type="radio" id="male"
name = "gender" value = "male">
<label for="male">Male</label>

```

Code for process.php:

```
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    $name = $_POST["name"];
```

```
    $email = $_POST["email"];
```

```
    $message = $_POST["message"];
```

```
    $subscribe = isset($_POST["subscribe"]);
```

```
"Yes" : "No";
```

```
    $interests = isset($_POST["cricket"]);
```

```
"Cricket" : "",
```

```
    $interests = isset($_POST["football"]);
```

```
"Football" : "",
```

```
    $gender = isset($_POST["gender"]);
```

```
$_POST["gender"] : "",
```

```
    $password = $_POST["password"];
```

```
<echo "<h2>Submitted Data : </h2>;
```

```
<echo "<p><strong>Name : </strong>> $name
```

```
</p>;
```

```
<echo "<p><strong>Email : </strong>> $email
```

```
</p>;
```

```
<echo "<p><strong>Message : </strong>> $message
```

```
</p>;
```

```
<echo "<p><strong>Subscribe to newsletter:
```

```
        </strong>> $subscribe </p>;
```

```
<echo "<p><strong>Interests : </strong>>
```

```
    $interests </p>;
```

```
<echo "<p><strong>Gender : </strong>> $gender
```

```
</p>;
```

```
<echo "<p><strong>Password : </strong>> $password
```

```
</p>;
```

```
? . ?>
```

Experiment No: 3 (b)

Experiment Name: Design a webpage that collects student information and subject marks and stores the information and make to MySQL database. Show the results in grading (GPA) system to another page using PHP program.

Objective: The objective of this experiment is to design a webpage to MySQL database and show another page using php program.

Code for index.html:

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF - 8">
    <meta name = "viewport" content = "width = device-width, initial-scale = 1.0">
<title> Student Information form </title>
</head>
<body>
    <h2> Student Information form </h2>
    <form action = "http://127.0.0.1:8080/36/process.php" method = "post">
        <label for = "roll"> Roll Number : </label>
        <input type = "text" id = "roll" name = "roll" required>
        <label for = "mark"> Mark : </label>
        <input type = "number" id = "mark" name = "mark" required>
        <input type = "submit" value = "Submit">
    </form>
</body>
</html>
```

Code to process .php:

```
<?php  
if ($_SERVER["REQUEST-METHOD"] == "POST") {  
    $roll = $_POST["roll"];  
    $mark = $_POST["mark"];  
  
    $servername = "localhost";  
    $username = "root";  
    $password = " ";  
    $dbname = "student";  
  
    $conn = new mysqli($servername, $username,  
                      $password, $dbname);  
  
    if ($conn->connect_error) {  
        die("Connection failed: " . $conn->connect_error);  
    }  
  
    $sql = "INSERT INTO student-data (roll, mark)  
           VALUES ('$roll', '$mark');";  
  
    if ($conn->query($sql) == TRUE) {  
        echo "<h2>Data stored in the database  
              successfully!</h2>";  
    } else {  
        echo "Error! " . $sql . "<br>" . $conn->  
             error;  
    }  
}  
?>
```

Code for result.php:

```
<?php  
$servername = "localhost";  
$username = "root";  
$password = "";  
$dbname = "studentdb";  
  
$conn = new mysqli($servername, $username,  
                   $password, $dbname);  
if ($conn->connect_error){  
    die("Connection failed: ". $conn->connect_error);  
}  
  
$sql = "SELECT * FROM student_data";  
$result = $conn->query($sql);  
  
echo "<h2>Student Results</h2>";  
if ($result->num_rows > 0){  
    echo "<table border='1'><tr><th>Roll</th>  
          <th>Mark</th><th>GPA</th></tr><tr>";  
    while ($row = $result->fetch_assoc()){  
        $roll = $row["roll"];  
        $mark = $row["mark"];  
        $gpa = calculateGPA($mark);  
        echo "<td>$roll</td><td>$mark  
              </td><td>$gpa</td></tr>";  
    }  
    echo "</table>";  
} else {  
    echo "No results found";  
}
```

```
$ Conn → clone ();  
function calculate GPA ($mark){  
    if ($mark >= 80){  
        return 'A+';  
    } elseif ($mark >= 70){  
        return 'A';  
    } elseif ($mark >= 60){  
        return 'B';  
    } elseif ($mark >= 50){  
        return 'C';  
    } elseif ($mark >= 40){  
        return 'D';  
    } else {  
        return 'F';  
    }  
}
```

?>

Experiment No: 4(a)

Experiment Name: Design a webpage containing Javascripts that takes a year as input and decides whether the year is leap year or not.

Objective: The objective of this experiment is to design a webpage containing Javascript.

Code for index.html:

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport" content = "width =
        device-width, initial-scale = 1.0">
<title> Leap Year Checker </title>
</head>
<body>
    <h2> Leap Year Checker </h2>
    <label for = "year"> Enter a year: </label>
    <input type = "text" id = "yearInput" />
    <button onclick = "checkLeapYear()"> Check </button>
    <p id = "result" > </p>
    <script>
        function checkLeapYear() {
            var year = document.getElementById(
                "yearInput").value;
```

```
if ((year % 4 == 0 && year % 100 != 0) ||  
    (year % 400 == 0)) {
```

```
    document.getElementById("result")  
        .innerHTML = year + " is a leap  
        year!";
```

```
} else {
```

```
    document.getElementById("result")  
        .innerHTML = year + " is not a leap  
        year!";
```

Y

</script>

</body>

</html>

Experiment No: 4(b)

Experiment Name: Design a webpage containing Javascripts that takes a number as input and convert it into text using switch statements (example : input 1, 2 ; output : one, two).

Objective: The objective of this experiment is to design a webpage containing Javascripts.

Code for index.html :

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport" content = "width=
        device-width, initial-scale = 1.0">
</head>
<body>
    <h2> Number to Text Converter </h2>
    <label for = "number"> Enter a number:
        </label>
    <input type = "text" id = "numberInput" />
    <button onclick = "ConvertToText()">
        Convert </button>
    <p id = "result" />
<script>
    function ConvertToText () {
        var number = document.getElementById
            ("numberInput").value;
```

```
var result = "";
switch (parseInt (number)) {
    Case 0:
        result = "zero";
        break;
    Case 1:
        result = "one";
        break;
    Case 2:
        result = "two";
        break;
    Case 3:
        result = "three";
        break;
    Case 4:
        result = "four";
        break;
    Case 5:
        result = "five";
        break;
    Case 6:
        result = "six";
        break;
    Case 7:
        result = "seven";
        break;
    Case 8:
        result = "eight";
        break;
    Case 9:
        result = "nine";
        break;
    default:
        result = "out of range";
```

```
document.getElementById ("result").innerHTML = "Text"
</main> </body> </html>
```