

Pakistan Institute of Engineering and Applied Sciences



Report

Lab-01: Intro to HTML

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Course Name: Internet application development

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Task: Description list**Code:**

```
<!DOCTYPE html>
<html>
<body>

<dl>
  <dt>Coffee</dt>
  <dd>Black hot drink</dd>
  <dt>Milk</dt>
  <dd>White cold drink</dd>
</dl>

</body>
</html>
```

Output:

Coffee
Black hot drink
Milk
White cold drink

Task: HTML Table**Code:**

```
<!DOCTYPE html>
<html>
<head>
<style>
table {
  font-family: arial, sans-serif;
```

```
border-collapse: collapse;
width: 100%;
}

td, th {
border: 1px solid #dddddd;
text-align: left;
padding: 8px;
}

tr:nth-child(even) {
background-color: #dddddd;
}
</style>
</head>
<body>

<h2>HTML Table</h2>

<table>
  <tr>
    <th>Company</th>
    <th>Contact</th>
    <th>Country</th>
  </tr>
  <tr>
    <td>Alfreds Futterkiste</td>
    <td>Maria Anders</td>
    <td>Germany</td>
  </tr>
  <tr>
    <td>Centro comercial Moctezuma</td>
    <td>Francisco Chang</td>
    <td>Mexico</td>
  </tr>
  <tr>
    <td>Ernst Handel</td>
    <td>Roland Mendel</td>
    <td>Austria</td>
```

```
</tr>
<tr>
  <td>Island Trading</td>
  <td>Helen Bennett</td>
  <td>UK</td>
</tr>
<tr>
  <td>Laughing Bacchus Winecellars</td>
  <td>Yoshi Tannamuri</td>
  <td>Canada</td>
</tr>
<tr>
  <td>Magazzini Alimentari Riuniti</td>
  <td>Giovanni Rovelli</td>
  <td>Italy</td>
</tr>
</table>

</body>
</html>
```

Output:**HTML Table**

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
Island Trading	Helen Bennett	UK
Laughing Bacchus Winecellars	Yoshi Tannamuri	Canada
Magazzini Alimentari Riuniti	Giovanni Rovelli	Italy

Task: Unordered list with disc bolts**Code:**

```
<!DOCTYPE html>
<html>
```

```
<body>

<h2>Unordered List with Disc Bullets</h2>

<ul style="list-style-type:disc;">
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>

</body>
</html>
```

Output:

Unordered List with Disc Bullets

- Coffee
- Tea
- Milk

Lab-01 problem

Consider the table shown in Figure 1 and Code Listing 1. Try to develop a solution of the following problem?

Write code using C/C++ which performs following tasks:

- Prompt the user to enter number of columns?
- Prompt the user to enter number of rows?
- Get data cell by cell from user using a loop?
- Generate an html page to display above data in a table?

e) Store the page in a folder on desktop.

C++ Code:

```
#include <iostream>
#include <fstream>
using namespace std;

int main()
{
    int rows, cols;
    string value;
    ofstream file("table.html");
    cout << "Enter the number of rows :";
    cin >> rows;
    cout << "Enter the number of columns :";
    cin >> cols;
    file << "<!DOCTYPE html/>\n<html>\n
<head>\n\t<title>\n\t\tTable\n\t</title>\n<style>table{font-family:
sans-serif; border: 2px solid black; margin: auto; text-align:
center; width: 50%; height: 50%; border-collapse: collapse;}
body{margin:auto; padding: 15px;} th,td {border: 1px solid black;
padding: 5px} tr:nth-child(odd) {background-color: #D6EEEE;}
</style></head>";
    file << "<body><h1 style=\"text-align: center; font-family: sans-
serif; margin-top: 50px\">Table is generated by C++ code</h1><table>";
    for (int i = 0; i < rows; i++)
    {
        file << "<tr>";
        for (int j = 0; j < cols; j++)
        {
            if (i == 0)
            {
                cout << "Enter the name of column " << j + 1 << " : ";
                cin >> value;
                file << "<th> " << value << "</th>";
            }
        }
    }
}
```

```
        else
        {
            cout << "Enter the value of row " << i + 1 << " and
column " << j + 1 << " :";
            cin >> value;
            file << "<td>" << value << "</td>";
        }
    }
    file << "</tr>";
}
file << "</table></body></html>\n";
file.close();
return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
Enter the number of rows :5
Enter the number of columns :5
Enter the name of column 1 : C1
Enter the name of column 2 : C2
Enter the name of column 3 : C3
Enter the name of column 4 : C4
Enter the name of column 5 : C5
Enter the value of row 2 and column 1 :1
Enter the value of row 2 and column 2 :2
Enter the value of row 2 and column 3 :3
Enter the value of row 2 and column 4 :4
Enter the value of row 2 and column 5 :5
Enter the value of row 3 and column 1 :6
Enter the value of row 3 and column 2 :7
Enter the value of row 3 and column 3 :8
Enter the value of row 3 and column 4 :█
```

Html code generated:

```
<!DOCTYPE html/>
<html>
  <head>
    <title>Table</title>
    <style>
      table {
```

```
font-family: sans-serif;
border: 2px solid black;
margin: auto;
text-align: center;
width: 50%;
height: 50%;
border-collapse: collapse;
}
body {
margin: auto;
padding: 15px;
}
th,
td {
border: 1px solid black;
padding: 5px;
}
tr:nth-child(odd) {
background-color: #d6eeee;
}
</style>
</head>
<body>
<h1 style="text-align: center; font-family: sans-serif; margin-top: 50px">
Table is generated by C++ code
</h1>
<table>
<tr>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>C5</th>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
```



```
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
</table>
</body>
</html>
```

Output:

Table is generated by C++ code

C1	C2	C3	C4	C5
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20