

AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (AUST)
141 & 142, Love Road, Tejgaon Industrial Area, Dhaka-1208.



Department of Computer Science and Engineering
Program: Bachelor of Science in Computer Science and Engineering

Assignment Report

Course No: CSE 3100
Course Title: Software Development IV

Date of Submission: 07/12/2023

Assignment No: 01

Submitted to
Ashek Seum
Lecturer, Department of CSE, AUST.

Sifat Rabbi
Adjunct Lecturer, Department of CSE, AUST.

Submitted by,
Name: Sharjil Shabab Khan
Student ID: 20210104108

Answer to the Question no 01:

HTML :

```
<!DOCTYPE html>
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="q1_style.css">

  <title>
    20210104108
  </title>

</head>

<body>
  <div id="myGrid">
    <div class="title">
      <h2> CSE 3100 Assignment 1 (C1)</h2>
    </div>

    <div class="holder image1">
      
      <div class="description">
        <h3 style="text-align: center;"> The Mind</h3>
        Photoshop, Print Design
      </div>
    </div>

    <div class="holder image2">
      
      <div class="description">
        <h3 style="text-align: center;"> The Police</h3>
        Illustration, Icons
      </div>
    </div>
  </div>
</body>
```

```
<div class="holder image3">
  
  <div class="description">
    <h3 style="text-align: center;"> The Leaf</h3>
    Icons, Print Design
  </div>
</div>
```

```
<div class="holder image4">
  
  <div class="description">
    <h3 style="text-align: center;"> The Sheild</h3>
    Illustration, Icons
  </div>
  <div class="title">
    <p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</p>
  </div>
</div>
</div>
```

</html>

CSS:

```
body {
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: center;
  background-color: cornsilk;
  height: 100vh
}

@media only screen and (max-width: 1920px){
  #myGrid{
    display: grid;
    /*grid-template-columns: 1fr 1fr 1fr 1fr 1fr;
    grid-template-rows: 1fr 1fr 1fr 1fr;*/
    grid-template-columns: repeat(auto-fit, minmax(100px,1fr));
    grid-gap: 20px;
    margin-top: 10px;
  }

  .title{
    grid-column: 3;
    grid-row: 1;
  }

  .image1 {
    grid-area: image1;
    background-color: white;
    grid-column: 3;
    grid-row: 2;
  }

  .image2 {
    grid-area: image2;
```

```
        background-color: white;
        grid-column: 2;
        grid-row: 3;
    }

    .image3 {
        grid-area: image3;
        background-color: white;
        grid-column: 4;
        grid-row: 3;
    }

    .image4 {
        grid-area: image4;
        background-color: white;
        grid-column: 3;
        grid-row: 4;
    }

    .holder{
        position: relative;
    }

    .holder img{
        /*width: 100%;
        height: 70%;*/
    }

    .description {
        width: auto;
        background-color: white;
        text-align: center;
        margin-top: 5px;
        padding-bottom: 40px;
    }
}
```

Answer to the Question no 02:

PHP :

```
<!DOCTYPE html>
<html lang="en">

<head>
  <link rel="stylesheet" href="Q2_style.css">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>

<body>
  <!--
  <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">
    <label style="color: white;" for="a">Enter A:</label>
    <input type="number" id="a" name="a" required>

    <label style="color: white;" for="b">Enter B:</label>
    <input type="number" id="b" name="b" required>

    <label style="color: white;" for="c">Enter C:</label>
    <input type="number" id="c" name="c" required>

    <button type="submit">Generate Table</button>

  </form> -->
  <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">
    <div class="form-container">
      <div class="icon">
        
      </div>
```

```

<div class="form-fields">
    <label style="color: white;" for="a">Insert A:</label>
    <input type="number" id="a" name="a" required>

    <label style="color: white;" for="b">Insert B:</label>
    <input type="number" id="b" name="b" required>

    <label style="color: white;" for="c">Insert C:</label>
    <input type="number" id="c" name="c" required>

    <button type="submit">Generate Table</button>
</div>
</div>

```

```

</form>
<br>

```

```

<div id="tableContainer">

```

```

    <?php
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        generateTable();
    }

```

```

function generateTable() {
    $a = intval($_POST['a']);
    $b = intval($_POST['b']);
    $c = intval($_POST['c']);
    echo '<br>';
    echo '<table>';
    echo '<tr><th>Number</th><th> Co Prime with ' . $c . '</th></tr>';

```

```

    for ($i = $a; $i <= $b; $i++) {
        $isCoprime = areCoprime($i, $c) ? 'Yes' : 'No';
        $class = $isCoprime === 'No' ? 'no-answer' : ($isCoprime === 'Yes' ?
'yes-answer' : '');
        // echo '<tr><td>' . $i . '</td><td>' . $isCoprime . '</td></tr>';

```

```

        echo '<tr><td class="" . $class . "">' . $i . '</td><td>' . $isCoprime .
'</td></tr>';
    }

    echo '</table>';
}

function areCoprime($x, $y) {
    return gcd($x, $y) === 1;
}

function gcd($a, $b) {
    return $b === 0 ? $a : gcd($b, $a % $b);
}
?>
</div>

</body>

</html>

```

CSS:

```

body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}

```



```
.form-container {  
  display: flex;  
  align-items: center;  
  max-width: 400px;  
  margin: 0 auto;  
  background-color: #000000;  
  padding: 20px;  
  border-radius: 15px;  
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
}
```

```
.icon {  
  margin-right: 50px;  
  max-width: 100px;  
}
```

```
.icon img{  
  width: 100%;  
  transition: transform 0.3s ease-in-out;  
}
```

```
.icon img:hover {  
  transform: scale(1.1);  
}
```

```
.form-fields {  
  color: white;  
  stroke: #ddd;  
}
```

```
label {  
  display: block;  
  color: white;  
  margin-bottom: 5px;  
  margin-left: 5px;  
}
```

```
input[type="number"] {  
    display: block;  
    padding-left: 10px;  
    font-size: 15px;  
    border: 1px solid white;  
    margin-bottom: 10px;  
}
```

```
form {  
    background-color: #000000;  
    padding: 50px;  
    border-radius: 15px;  
    box-shadow: 0 0 10px #5cc9ff;  
}
```

```
table {  
    margin-top: 20px;  
    border-collapse: collapse;  
    width: 100%;  
    border: 2px solid #000000;  
  
    margin-left: 50px;  
  
}
```

```
th, td {  
    border: 1px solid #ddd;  
    padding: 12px;  
    text-align: center;  
}
```

```
th {  
    background-color: #f2f2f2;
```

```
    font-weight: bold;
}
```

```
tr:nth-child(even) {
    background-color: #f9f9f9;
}
```

```
tr:hover {
    background-color: #E0F4FF;
}
```

```
td.no-answer:hover {
    background-color: #ffcccc;
}
```

```
td.yes-answer:hover {
    background-color: #ccffcc;
}
```

```
input{
    border: 1px solid black;
    border-radius: 20px;
    height: 20px;
    padding-left: 5px;
    margin-left: 5px;
    margin-right: 5px;
}
```

```
button{
    display: block;
    margin-top: 20px;
    border-radius: 20px;
    padding: 10px;
    border: none;
    cursor: pointer;
    margin-left: 40px;
}
```

```
background: #A0E9FF;
transition: 0.5s;
}
button:hover{
background: #5cc9ff;
animation: glow 1s ease-in-out infinite alternate;
}
@keyframes glow {
0% {
box-shadow: 0 0 10px rgba(92, 201, 255, 0.7), 0 0 20px rgba(92, 201, 255,
0.5); /* Start glow */
}
100% {
box-shadow: 0 0 20px rgba(3, 149, 247, 0.9), 0 0 30px rgba(92, 176, 255,
0.7) /* End glow */
}
}
```