```
  1    <!DOCTYPE html>
  2    <html lang="en">
  3
  4        <head>
  5            <meta charset="utf-8">
  6            <title>CNIT133</title>
  7   <!-- This is webpage that contains links to CNIT 133 Homework 4 - Looping Statements -->
  8            <meta name="description" content="This is homework 4 main page for CNIT133 using
               HTML5 and inline CSS">
  9            <link rel="stylesheet" type="text/css" href="hw4style.css">
 10            <script src="hw4script"></script>
 11            <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.0/jquery.min.js"
               ></script>
 12            <script src="https://code.jquery.com/ui/1.13.2/jquery-ui.js"></script>
 13        </head>
 14
 15        <body >
 16            <header style="background-color:#e33c3c">
 17                <div class="header-container">
 18                    <a class="header-text" href="hw4.html" target="_self">CNIT 133 Homework
                       4 - Looping Statements</a>
 19                    <figure>
 20                    <a href="https://www.ccsf.edu/" target="_self">
 21                    <img src="ccsf_ram.gif" alt="ccsf ram logo" width="139" class=
                       "right-image">
 22                    </a>
 23                    </figure>
 24                </div>
 25            </header>
 26            <div class="menu-container">
 27                <nav>
 28                <a href="index.html" target="_self" class="button">Course Basics</a>
 29                <a href="hw2.html" target="_self" class="button">JS Basics</a>
 30                <a href="hw3.html" target="_self" class="button">Functions</a>
 31                <a href="hw4.html" target="_self" class="button">Looping Statements</a>
 32                <a href="hw5.html" target="_self" class="button">Arrays</a>
 33                <a href="hw6.html" target="_self" class="button">Objects</a>
 34                <a href="hw7.html" target="_self" class="button">DOM and jQuery</a>
 35                <a href="hw8.html" target="_self" class="button">Ajax Applications</a>
 36                </nav>
 37            </div>
 38            <div class="submenu-container">
 39                <div class="submenu-header">
 40                    Homework 4 Part:
 41                </div>
 42                <div class="submenu-button">
 43                <nav>
 44                    <a href="hw4-description.html" target="_self" class="button-two">
                       Description</a>
 45                    <a href="hw4-part1.html" target="_self" class="button-two">Part I</a>
 46                    <a href="hw4-part2.html" target="_self" class="button-two">Part II</a>
 47                    <a href="hw4-extra-credit.html" target="_self" class="button-two">Extra
                       Credit</a>
 48                </nav>
 49                </div>
 50            </div>
 51            <article>
 52                <header>
 53                    <br>
 54                    <h2 style="color:brown">Homework 3 Instructions on Topic "Functions"</h2>
 55                </header>
 56                <section>
 57                <h3>What you will do:</h3>
 58                Create a web page that will be the main page for Homework 4 with the heading
                   CNIT 133 Homework 4 - Looping Statements<br>
 59                The contents of this page should be, besides the heading:
 60                    <ul class="square-list">
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        <li>Hyperlink to Part 1 - with a short summary about that part</li>
        <li>Hyperlink to Part 2 - with a short summary about that part</li>
        <li>hyperlink to Extra credit (if you will do it) - with a short
            summary about the extra credit</li>
        <li>Hyperlink to Homework 1 which is the main page (front page) of
            your course</li>
    </ul>
    <br>
</section>
<section>
<h3>Part I:</h3>
<p>Create a webpage for Part 1 that contains:
<ul>
    <li>A script using the for looping statement.
    Loop calculates the product sum of every fourth integer from 5 to 25
    inclusive.
    Displays the results along with some accompanying text.<br>
    Presenting the results, you could show two lines such as: <br>
        The result of 5 * 9 * 13 * 17 * 21 * 25 is ....
    <br>
        The result of 5 + 9 + 13 + 17 + 21 + 25 is ....
    <br></li>
    <li>A script using while or do while looping statement.
    Loop will calculates the product and sum of every third integer from 3
    to 18 inclusive.
    Displays results, along with some accompanying text.<br>
    Presenting the results, you could show two lines such as:<br>
        The result of 3 * 6 * 9 * 12 * 15 * 18 is ....
    <br>
        The result of 3 + 6 + 9 + 12 + 15 + 18 is ....
    <br></li>
    <li>Use toLocaleString() to present the result with the correct
    punctuation.</li>
    <li>Use jQuery UI to allow the user to drag an element to any area of
    the page.</li>
</ul>
</p>
</section><br>

<section>
<h3>Part II:</h3>
<p>Create a web page to show to interested clients how the compound interest
works. Must include:
<ul>
    <li>Heading "Learn about compound interest".</li>
    <li>Below the heading you will code a script to show 3 tables with the
    calculation of compound interest on a principal of $1000.<br>
        The first table will be for the interest rate of
    5%<br>
        The second table will be for the interest rate
    of 6%<br>
        The third table will be for the interest rate of
    7%<br></li>
    <li>Each of the tables will show the rows from year 1 through 5.</li>
    <li>The formula to calculate the compound interest is: A = P(1 + r)<sup>n
    </sup><br>
        P is the principal (the initial amount you
    borrow or deposit)<br>
        r is the annual rate of interest (percentage)
    that, for 5% for example, would be 0.05<br>
        n is the number of years the amount is deposited
    <br>
        A is the amount of money accumulated after n
    years, including interest<br></li>
    <li>The table will look like what is shown here below (the table below
    is showing only the first 4 years and for only the 5% interest rate):<br>
        The first column will have the number for the
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107    year.<br>
108        The second column will have the Amount.<br>
           The third column will have the interest rate
       that is being used.<br></li>
109    <br>
110    <table border="1"><caption style="display: none;">Example amount and
       rate table</caption>
111        <tbody>
112        <tr style="background-color: maroon; color: white;">
113        <th scope="row">Year</th>
114        <th scope="row">Amount on deposit</th>
115        <th scope="row">Interest Rate</th>
116        </tr>
117        <tr style="background-color: #ff7f50;">
118        <td style="border: 1px dotted gray;">1</td>
119        <td style="border: 1px dotted gray;">1050.00</td>
120        <td style="border: 1px dotted gray;">0.05</td>
121        </tr>
122        <tr style="background-color: yellow;">
123        <td style="border: 1px dotted gray;">2</td>
124        <td style="border: 1px dotted gray;">1102.50</td>
125        <td style="border: 1px dotted gray;">0.05</td>
126        </tr>
127        <tr style="background-color: #ff7f50;">
128        <td style="border: 1px dotted gray;">3</td>
129        <td style="border: 1px dotted gray;">1157.63</td>
130        <td style="border: 1px dotted gray;">0.05</td>
131        </tr>
132        <tr style="background-color: yellow;">
133        <td style="border: 1px dotted gray;">4</td>
134        <td style="border: 1px dotted gray;">1215.51</td>
135        <td style="border: 1px dotted gray;">0.05</td>
136        </tr>
137        </tbody>
138        </table>
139    </ul>
140    </p>
141    </section><br>
142
143    <section>
144    <h3>Extra Credit:</h3>
145    <p>Create a webpage with:<br>
146    <ul>
147        <li>A heading</li>
148        <li>A form with an input box that will allow the user to enter a number
           (integer), a button to process the script, and a button to clear the
           form.</li>
149        <li>A separated div or paragraph element below the form where you will
           present the result.</li>
150    </ul>
151    </p>
152    <p>You will build a script that:<br>
153    <ul>
154        <li>Will read the number typed by the user that should be between 2 and
           10.</li>
155        <li>Based on that number, you will display a hollow square with that
           size constructed of asterisks.</li>
156        <li>If the user entered an invalid number (not a number or outside the
           range of 2 to 10), you should present an error message in the div or
           paragraph element below the form and you should NOT present the square!
           </li>
157        <li>If the user entered a valid number, you should present the hollow
           square in. the div or paragraph element below the form.</li>
158    </ul>
159    </p>
160    </section>
161    </article>
```

```html
            <article class="solution-box">
                <header>
                    <h2>Homework 4 Code Solution</h2>
                </header>
                <div class="solution-frame">
                <iframe src="hw4.pdf"></iframe>
                </div>
                <br><br>
            </article>

            <footer style="background-color:#cccccc67">
                <br>
                <figure>
                <div class="footer-text-container">
                    <img src="op.jpg" alt="self" width="80" class="rounded-image">
                    <p>Teresita Anselm<br>
                    City College of San Francisco<br>
                    tanselm@mail.ccsf.edu<br></p>
                </div>
                </figure>

                <p class="right-text">Copyright of Teresita Anselm &copy; 2023&nbsp</p>
            </footer>

        </body>
    </html>
```