

Program-2: Write a JavaScript that calculates the squares and cubes of the numbers from 0 to 10 and outputs HTML text that displays the resulting values in an HTML table format.

```
<!DOCTYPE html>

<html>

<head>

<title>Squares and Cubes</title>

</head>

<body>

<table border="1" align="center">

<tr>

<td>Number</td>

<td>SQUARE</td>

<td>CUBES</td>

</tr>

<script type="text/javascript">

for(var i=0;i<=10;i++)

{

document.write("<tr align='center'><td>" + i + "</td><td>" + i*i

+"</td><td>" + i*i*i + "</td></tr>")

}

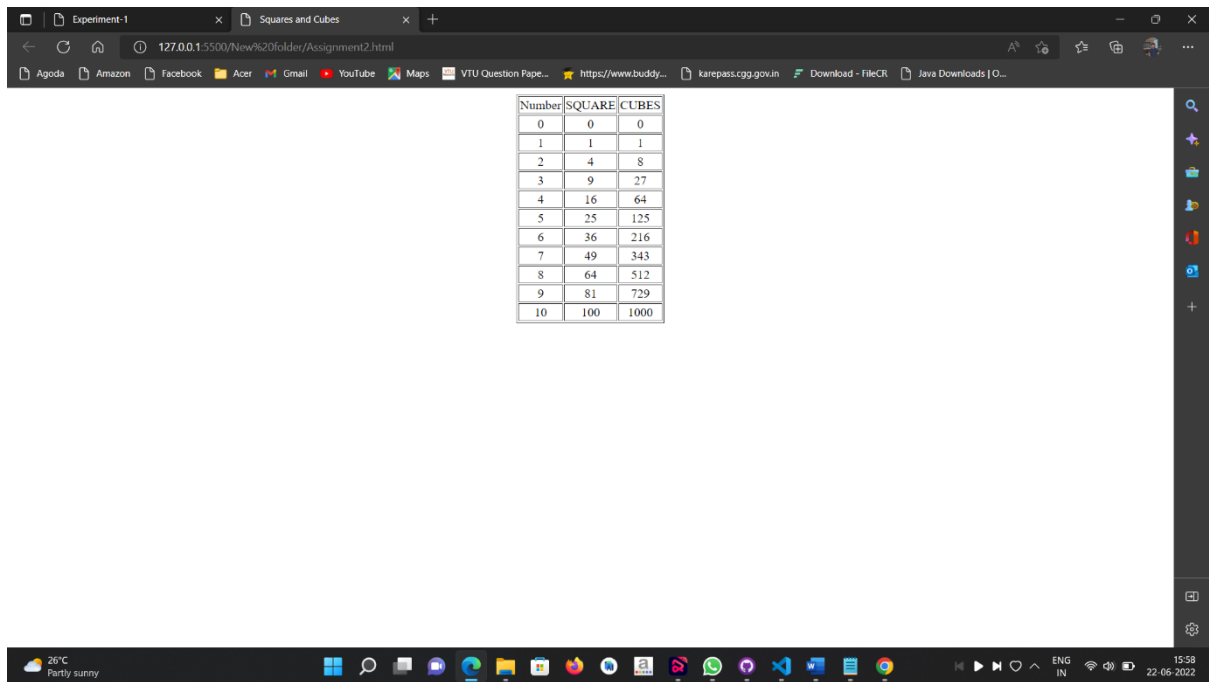
</script>

</table>

</body>

</html>
```

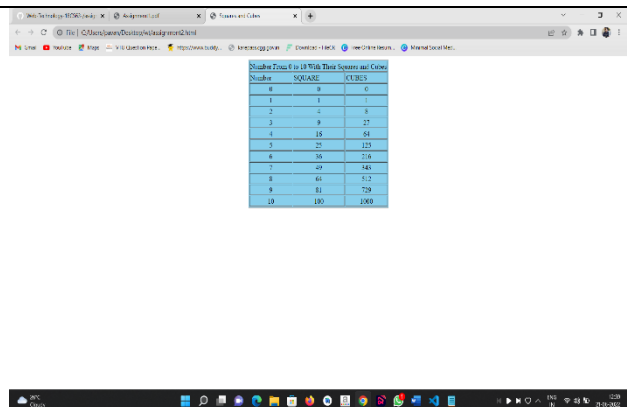
OUTPUT:

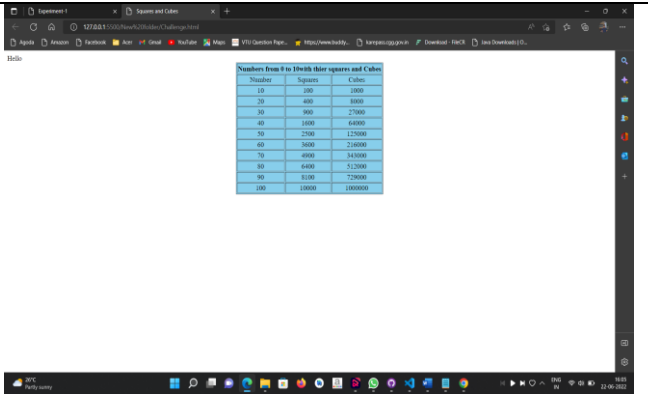
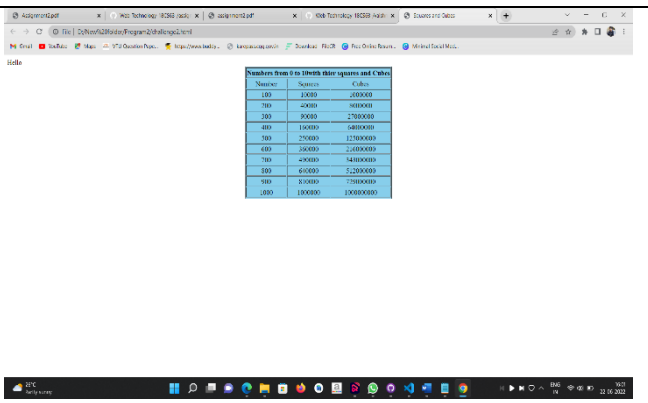


The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5500/New%20folder/Assignment2.html'. The browser tabs include 'Experiment-1' and 'Squares and Cubes'. The main content area displays a table with three columns: 'Number', 'SQUARE', and 'CUBES'. The table contains data for numbers from 0 to 10. The Windows taskbar at the bottom shows the date as 22-06-2022 and the time as 15:58.

| Number | SQUARE | CUBES |
|--------|--------|-------|
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 2 | 4 | 8 |
| 3 | 9 | 27 |
| 4 | 16 | 64 |
| 5 | 25 | 125 |
| 6 | 36 | 216 |
| 7 | 49 | 343 |
| 8 | 64 | 512 |
| 9 | 81 | 729 |
| 10 | 100 | 1000 |

TEST CASES:

| Test No. | Input Parameters | Output image | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------------------------|---|--------|--------|-------|---|---|---|---|---|---|---|---|---|---|---|----|---|----|----|---|----|-----|---|----|-----|---|----|-----|---|----|-----|---|----|-----|----|-----|------|
| 1 | i=0 to 10, increment of i+1 |  <p>The screenshot shows the program's output in a web browser. The title of the page is 'Squares and Cubes'. The output is a table with three columns: 'Number', 'SQUARE', and 'CUBES'. The table contains data for numbers from 0 to 10. The Windows taskbar at the bottom shows the date as 22-06-2022 and the time as 15:58.</p> <table border="1"> <thead> <tr> <th>Number</th><th>SQUARE</th><th>CUBES</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> <tr><td>2</td><td>4</td><td>8</td></tr> <tr><td>3</td><td>9</td><td>27</td></tr> <tr><td>4</td><td>16</td><td>64</td></tr> <tr><td>5</td><td>25</td><td>125</td></tr> <tr><td>6</td><td>36</td><td>216</td></tr> <tr><td>7</td><td>49</td><td>343</td></tr> <tr><td>8</td><td>64</td><td>512</td></tr> <tr><td>9</td><td>81</td><td>729</td></tr> <tr><td>10</td><td>100</td><td>1000</td></tr> </tbody> </table> | Number | SQUARE | CUBES | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 8 | 3 | 9 | 27 | 4 | 16 | 64 | 5 | 25 | 125 | 6 | 36 | 216 | 7 | 49 | 343 | 8 | 64 | 512 | 9 | 81 | 729 | 10 | 100 | 1000 |
| Number | SQUARE | CUBES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 4 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 9 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 16 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 25 | 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 36 | 216 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 49 | 343 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 64 | 512 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 81 | 729 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 2 | $i=10$ to 100, increment of $i+10$ |  <table><thead><tr><th>Number</th><th>Square</th><th>Cube</th></tr></thead><tbody><tr><td>10</td><td>100</td><td>1000</td></tr><tr><td>20</td><td>400</td><td>8000</td></tr><tr><td>30</td><td>900</td><td>27000</td></tr><tr><td>40</td><td>1600</td><td>64000</td></tr><tr><td>50</td><td>2500</td><td>125000</td></tr><tr><td>60</td><td>3600</td><td>216000</td></tr><tr><td>70</td><td>4900</td><td>343000</td></tr><tr><td>80</td><td>6400</td><td>512000</td></tr><tr><td>90</td><td>8100</td><td>729000</td></tr><tr><td>100</td><td>10000</td><td>1000000</td></tr></tbody></table> | Number | Square | Cube | 10 | 100 | 1000 | 20 | 400 | 8000 | 30 | 900 | 27000 | 40 | 1600 | 64000 | 50 | 2500 | 125000 | 60 | 3600 | 216000 | 70 | 4900 | 343000 | 80 | 6400 | 512000 | 90 | 8100 | 729000 | 100 | 10000 | 1000000 |
|--------|---------------------------------------|--|--------|--------|------|-----|-------|---------|-----|-------|---------|-----|-------|----------|-----|--------|----------|-----|--------|-----------|-----|--------|-----------|-----|--------|-----------|-----|--------|-----------|-----|--------|-----------|------|---------|------------|
| Number | Square | Cube | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 400 | 8000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 900 | 27000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 1600 | 64000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 2500 | 125000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 3600 | 216000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 4900 | 343000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 6400 | 512000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 8100 | 729000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 10000 | 1000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | $i=100$ to 1000, increment of $i+100$ |  <table><thead><tr><th>Number</th><th>Square</th><th>Cube</th></tr></thead><tbody><tr><td>100</td><td>10000</td><td>1000000</td></tr><tr><td>200</td><td>40000</td><td>8000000</td></tr><tr><td>300</td><td>90000</td><td>27000000</td></tr><tr><td>400</td><td>160000</td><td>64000000</td></tr><tr><td>500</td><td>250000</td><td>125000000</td></tr><tr><td>600</td><td>360000</td><td>216000000</td></tr><tr><td>700</td><td>490000</td><td>343000000</td></tr><tr><td>800</td><td>640000</td><td>512000000</td></tr><tr><td>900</td><td>810000</td><td>729000000</td></tr><tr><td>1000</td><td>1000000</td><td>1000000000</td></tr></tbody></table> | Number | Square | Cube | 100 | 10000 | 1000000 | 200 | 40000 | 8000000 | 300 | 90000 | 27000000 | 400 | 160000 | 64000000 | 500 | 250000 | 125000000 | 600 | 360000 | 216000000 | 700 | 490000 | 343000000 | 800 | 640000 | 512000000 | 900 | 810000 | 729000000 | 1000 | 1000000 | 1000000000 |
| Number | Square | Cube | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 10000 | 1000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 40000 | 8000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 90000 | 27000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 160000 | 64000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 250000 | 125000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 360000 | 216000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 490000 | 343000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 640000 | 512000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 810000 | 729000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 1000000 | 1000000000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |