Nested loops - Practice code

Problem Statement 1: Nested For Loops

Create a JavaScript program that displays the value of inner for loop for each outer iteration, as well as outer for loop.

Problem Statement 2: Tables using nested for loop

Print tables using nested for loop.

| Tables: | |
|-------------|-------------|
| 1 * 1 = 1 | 2 * 1 = 2 |
| 1 * 2 = 2 | 2 * 2 = 4 |
| 1 * 3 = 3 | 2 * 3 = 6 |
| 1 * 4 = 4 | 2 * 4 = 8 |
| 1 * 5 = 5 | 2 * 5 = 10 |
| 1 * 6 = 6 | 2 * 6 = 12 |
| 1 * 7 = 7 | 2 * 7 = 14 |
| 1 * 8 = 8 | 2 * 8 = 16 |
| 1 * 9 = 9 | 2 * 9 = 18 |
| 1 * 10 = 10 | 2 * 10 = 20 |

Problem Statement 3: Triangle numbers

Write a JavaScript program to display a triangle of numbers using a nested for loop.

| Displaying a triangle of numbers: |
|-----------------------------------|
| 1 |
| 12 |
| 123 |
| 1234 |
| 12345 |
| |

Problem Statement 4: Right Triangle pattern

Create a JavaScript program to display the right triangle pattern of numbers.

```
Displaying Right Triangle Pattern:
1
22
333
4444
55555
```

Solution Scripts:

Problem Statement 1:

```
// Outer for loop.
  for(var i = 1; i <= 3; i++)
  {
    document.write(i, "<br>"); // will execute 3 times.
// Inner for loop.
  for(var j = 1; j <= 4; j++)
    {
       document.write(j, " "); // will execute 12 (3 * 4) times.
    }
    document.write("<br>");
}
```

Problem Statement 2:

```
let i, j;
  document.write("Tables:", "<br>");
// Outer for loop.
  for(i = 1; i <= 2; i++)
  {
    // Inner for loop.
    for(j = 1; j <= 10; j++)
    {
       document.write(i+ " * " +j+" = "+ (i*j), "<br>");
    }
    document.write("");
}
```

Problem Statement 3:

```
let i, j;
  document.write("Displaying a triangle of numbers:", "<br>");
// Outer for loop.
```

```
for(i = 1; i <= 5; i++)
{
// Inner for loop.
  for(j = 1; j <= i; j++)
    {
      document.write(j);
    }
  document.write("<br>");
}
```

Problem Statement 4:

```
let i, j;
  document.write("Displaying Right Triangle Pattern:", "<br>");
// Outer for loop.
  let k = 1;
  for(i = 1; i <= 5; i++)
  {
    // Inner for loop.
    for(j = 1; j <= i; j++)
    {
       document.write(k);
    }
    document.write("<br>");
    k++;
}
```