Exercise 1: CSS Selectors

Create an HTML document with multiple paragraphs. Write CSS rules to apply different styles to:

- All paragraphs (that is all the elements in the page must have font size 16px and font blue)
- Only the first paragraph (font must be bold)
- Paragraphs with a specific class (font colour: yellow)

```
(!DOCTYPE html)
(html)
(head)
(style)
 / Select all paragraphs /
 p {
   font-size: 16px;
   color: blue;
 / · Select only the first paragraph ·/
 p:first-child {
   font-weight: bold;
 / * Select paragraphs with class 'special' */
 p.special {
   background-color: yellow;
(/style)
(/head)
(body)
 This is the first paragraph.
 This is a special paragraph.
 Another regular paragraph.
 Another special paragraph.
(/body)
(/html)
```

Exercise 2: Background Styles

(html)

Description: Create an HTML document and apply different background styles using CSS for the page and specific elements.

Given the following HTML body:

Cloured background.

<

```
(head)
 <title>CSS Lab Exercises(/title>
 (style)
   / Exercise 2: Background Styles */
     background-color: #f0f0f0; / * Set the background of the whole page to #f0f0f0 */
   .box {
     background-color: #ffcc00; / * Set the box background color to #ffcc00 */
     padding: 20px; / * Set the padding of the box to 20pt */
 (/style)
(/head)
(body)
(h1)CSS Lab Exercises(/h1)
<h2>Exercise 2: Background Styles(/h2)
<div class="box">This is a box with a colored background.</div>
(/body)
(/html)
```

Exercise 3: Box Model

</style>
</head>

```
Description: Create an HTML document and experiment with the box model properties: margins,
padding, and borders.
Given the following HTML body:
(body)
 <div class="box">Box with Margins, Padding, and Border(/div)
(/body)
(/html)
set the size of the box to 200px (width) and 100px (height), the margin to 20px, the padding to 10px
and the border to 2px and colour black (using the #xxxxxx notation)
<!DOCTYPE html>
(html)
(head)
(style)
 .box {
   width: 200px;
   height: 100px;
   margin: 20px;
   padding: 10px;
   border: 2px solid #000;
```

Exercise 5: Font and Google Icons

Description: Create an HTML document and set fonts for the page using Google Fonts. Use the body of the previous exercise to set the font to 'Open Sans', sans-serif (remember to include the link to Google fonts https://fonts.googleapis.com/css?family=Open+Sans che è a sua volta uno stylesheet (si fa quello nel documento HTML)

```
c!DOCTYPE html>
chtml>
chead>
clink href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
cstyle>
    body {
    font-family: 'Open Sans', sans-serif;
    }

c/style>
c/head>
cbody>
cp)This text uses the Open Sans font.c/p>
c/body>
c/html>
```

Exercise 6: Floating Elements

width: 50%;

Description: Create an HTML document with multiple elements and float them to see how they interact.

```
Given the following body:

⟨body⟩
⟨div⟩Left Column⟨/div⟩
⟨div⟩Right Column⟨/div⟩
⟨/body⟩
make the two elements float to the left and to the right using "float"

⟨!DOCTYPE html⟩
⟨html⟩
⟨head⟩
⟨style⟩

.float-left {
   float: left;
   width: 50%;
}

.float-right {
   float: right;
}
```

```
// c/style>
c/head>
cbody>
cdiv class="float-left">Left Columnc/div>
cdiv class="float-right">Right Columnc/div>
c/body>
c/html>
```

Exercise 7: Viewport

Description: Create an HTML document and set the viewport to the width of the device and initial scale to 1.

```
<!DOCTYPE html>
(html)
(head)
(meta name="viewport" content="width=device-width, initial-scale=1.0")
(style)
    /* Your CSS styles here */
(/style)
(/head)
(body)
    (!-- Your HTML content here --)
(/body)
(/html)
```

Exercise 8: Margins and Paddings:

Create a centred box of text with a coloured background, and add margins and paddings to it.

```
(!DOCTYPE html)
(html)
(head)
 <title>CSS Lab Exercises(/title)
 (style)
   / * Exercise 8: Margins and Paddings */
   .centered-box {
     width: 200px;
     height: 200px;
     background-color: #ffcc00;
     margin: 0 auto; / * Center the box horizontally */
     padding: 20px;
 (/style)
(/head)
(body)
(h1)CSS Lab Exercises(/h1)
<h2>Exercise 8: Margins and Paddings(/h2)
 (div class="centred-box")
 This is a centred box with margins and paddings.
```

```
</div>
</body>
</html>
```

Exercise 9: Heights and Widths of Elements:

Create a responsive image with a width of 100%.

```
<!DOCTYPE html>
(html)
(head)
 <title>CSS Lab Exercises(/title)
   / • Exercise 8: Width of Elements •/
   .responsive-image {
     width: 100%;
     height: auto; / · Maintain aspect ratio · /
 (/style)
(/head)
(body)
 (h1)CSS Lab Exercises(/h1)
 <h2>Exercise 8: Width of Elements
 <img src="your-image-url.jpg" alt="Responsive Image" class="responsive-image">
(/body)
</html>
```

Exercise 10: Opacity of Elements:

Create an image with 50% opacity

```
<!DOCTYPE html>
(html)
(head)
 <title>CSS Lab Exercises</title>
 (style)
   / • Exercise 9: Opacity of Elements •/
   .transparent-image {
     opacity: 0.5; /* 50% opacity */
 (/style)
(/head)
(body)
 (h1)CSS Lab Exercises(/h1)
 <h2>Exercise 9: Opacity of Elements
 <img src="your-image-url.jpg" alt="Transparent Image" class="transparent-image">
(/body)
(/html)
```