

Instructions

A A

Helvetica N...

Font Size: 16px

Step 1 of 1**Lab: Styling your web page using CSS****Estimated time:** 45 minutes

In this lab, you will take the role of a web developer who has been asked by a primary school to develop a web page about the solar system.

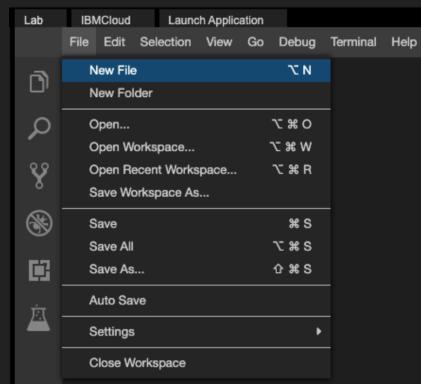
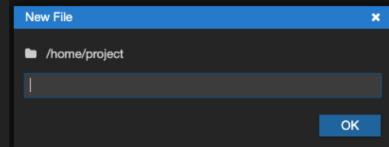
Objectives

After completing this lab, you will be able to:

1. Create a basic web page
2. Specify the font family and font size for text
3. Use colors to change the appearance of elements
4. Create borders

1. Create a web page

In this exercise, you will create a simple HTML web page about the solar system.

On the window to the right, click **File > New File**.A **New File** window opens.Enter **solarsystem.html** as the file name and click **OK**.

Now we'll add some HTML to the file and then apply CSS styles.

Copy and paste the following code into the file you created and save the page:

```
<!DOCTYPE html>
<html>
    <head>
        <title>Solar System</title>
    </head>
    <body>
        <h1>Solar System</h1>
        
        <p>The solar system consists of the sun and everything that orbits the sun. This includes the eight planets and their moons, the dwarf planets, asteroids, comets and other small objects.</p>
        <p>All the planets and dwarf planets, the rocky asteroids, and the icy bodies in the Kuiper belt move around the Sun in elliptical orbits in the same direction that the Sun rotates. This motion is termed prograde, or direct, motion.</p>
        <p><strong><u> Planets in the solar system: </u></strong> </p>
        <table>
            <tr>
                <th>No. </th>
                <th>Planet Name </th>
                <th>Distance from Sun </th>
            </tr>
            <tr>
                <td>1 </td> <td>Mercury</td> <td>57.91 m km</td>
            </tr>
            <tr>
                <td>2 </td> <td>Venus</td> <td>108.2 m km</td>
            </tr>
            <tr>
                <td>3 </td> <td>Earth</td> <td>149.6 m km</td>
            </tr>
            <tr>
                <td>4 </td> <td>Mars</td> <td>227.9 m km</td>
            </tr>
        </table>
    </body>
</html>
```

```

</tr>
<tr>
    <td>5 </td> <td>Jupiter</td> <td>778.5 m km</td>
</tr>
<tr>
    <td>6 </td> <td>Saturn</td> <td>1.434 b km</td>
</tr>
<tr>
    <td>7 </td> <td>Uranus</td> <td>2.871 b km</td>
</tr>
<tr>
    <td>8</td> <td>Neptune</td> <td>4.495 billion km</td>
</tr>
</table>
</body>
</html>

```



To see how your HTML page will display, click the preview icon at the top right of the window.

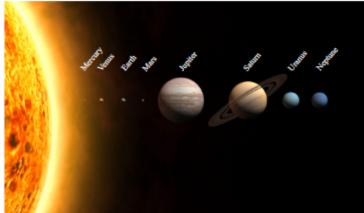
```

Lab IBMCloud Launch Application
File Edit Selection View Go Debug Terminal Help
mywebpage.html ●
1  <!DOCTYPE html>
2  <html>
3  <head>
4  |   <title>Thomas J. Watson Sr - Fan Page</title>
5  </head>
6  <body>
7
8  </body>
9 </html>

```

Your page should like this:

Solar System



The solar system consists of the sun and everything that orbits the sun. This includes the eight planets and their moons, the dwarf planets, asteroids, comets and other small objects.

All the planets and dwarf planets, the rocky asteroids, and the icy bodies in the Kuiper belt move around the Sun in elliptical orbits in the same direction that the Sun rotates. This motion is termed prograde, or direct, motion.

Planets in the solar system:

No. Planet Name Distance from Sun (in million km)

1	Mercury	57.91
2	Venus	108.2
3	Earth	149.6
4	Mars	227.9
5	Jupiter	778.5
6	Saturn	1434
7	Uranus	2873
8	Neptune	4495

2. Specify a font family and font size for text

CSS helps define style, layout, colors, and fonts for your pages. In this exercise, you will set the font family. We'll also use CSS to change the font characteristics for some elements.

We'll use the **font-family** and **font-size** properties to change the appearance of the heading.

Note: In this lab, you will apply styles using **inline CSS format**. You will add the **style** attribute to the element to change the style.

Change the heading font

Modify the **<h1>** tag so that it looks like this:

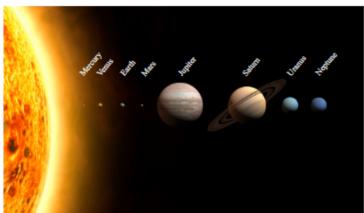
```
<h1 style="font-family: Cursive">Solar System</h1>
```



Here, **Cursive** is a generic font family. You could also specify a font name such as **Arial** or a group of font family names separated by a comma, such as **font-family: Arial, serif**.

When you have updated the tag, save the file. The page should now look like this:

Solar System



The solar system consists of the sun and everything that orbits the sun. This includes the eight planets and their moons, the dwarf planets, asteroids, comets and other small objects.

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Change the font size

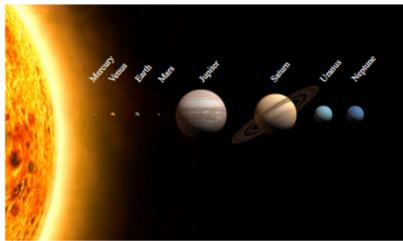
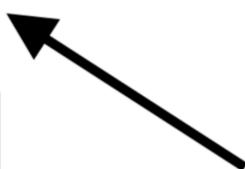
Add the **font-size** property to the `<h1>` style so that your code looks like this:

```
<h1 style="font-family: Cursive; font-size: 70px"> Solar System </h1>
```



When you have made the change, save your file. Your page should now look like this:

Solar System



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3. Change the color of an element

You will now set the background color of the page and update the color of an HTML element. To change the background color, you use the CSS **background-color** property. To change an element's color, you use the **color** property.

Change the background color

To change the background color of the body of the web page, update the `\` tag as in the following code:

```
<body style="background-color:wheat">
```



Change the font color

You specify a color for an element using a predefined color name, or by using RGB, HEX, HSL, RGBA, or HSLA values.

The RGB system enables you to specify a color as a combination of the primary colors red, green, and blue. RGB colors range from `rgb(0,0,0)`, which is black, to `rgb(255,255,255)` which is white.

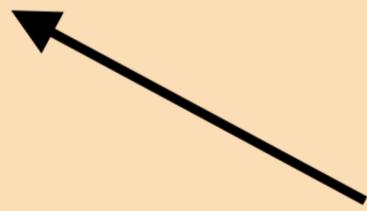
Change the color of your heading using the RGB system, as follows:

```
<h1 style="font-family: Cursive; font-size:70px; color:rgb(139,0,0)">Solar System</h1>
```



When you have updated the code, save the file. The web page should now look like this:

Solar System



The solar system consists of the sun and everything that orbits the sun. This includes the eight planets and their moons, the dwarf planets, asteroids, comets and other small objects.

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4. Create borders

Tables created in HTML do not display a border by default. Using CSS, we can apply borders to tables, \ elements, and other tags.

Add a table border

We'll add a border to the table in your web page. The border will be solid, black, and two pixels wide.

Update the `<table>` tag with the following CSS code:

```
<table style="border: 2px solid black">
```



When you have made the changes, save the file. The table in the page should now look like this:

Planets in the solar system:

No.	Planet Name	Distance from Sun (in million km)
1	Mercury	57.91
2	Venus	108.2
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Add a border to table headings and table cells

CSS gives you the flexibility to add a style to multiple instances of the same HTML tag. For example, instead of specifying the style for each individual

`tag within the row.`

Add a style to the first `<tr>` tag in the table, as follows:

```
<tr style="background-color:yellow">
  <th>No. </th>
  <th>Planet Name </th>
  <th>Distance from Sun </th>
</tr>
```



When you have made the changes, save the file. The page should now look like this:

Solar System



The solar system consists of the sun and everything that orbits the sun. This includes the eight planets and their moons, the dwarf planets, asteroids, comets and other small objects.

All the planets and dwarf planets, the rocky asteroids, and the icy bodies in the Kuiper belt move around the Sun in elliptical orbits in the same direction that the Sun rotates. This motion is termed prograde, or direct, motion.

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Summary

Congratulations!!! You have now learned how to update the styles for a web page using both inline and internal CSS. Don't stop there -- we encourage you to create a web page about your country and try applying and updating styles using CSS.

Tutorial details

Author: Ramesh Sannareddy

Change log

Date	Version	Changed by	Change Description
2020-08-13	1.0	Ramesh Sannareddy	Initial version created

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Highlight the table header

Finally, let's make the table header stand out by specifying a background color for the entire table row. By adding the style to the row, you do not need to update each individual \

