

# HTML TABLES

- Tables are defined with the `<table>` tag.
- Tables are divided into **table rows** with the `<tr>` tag.
- Table rows are divided into table data with the `<td>` tag.
- Example

```
<table style="width:200px">  
  <tr>  
    <td>Jill</td>  
    <td>Smith</td>  
  
  </tr>  
  <tr>  
    <td>Eve</td>  
    <td>Jackson</td>  
  
  </tr>  
</table>
```

# TABLE ATTRIBUTES

- **Border:** Specifies the width of the table border.  
**Example:** `<table border="1">` (adds a 1px border around the table).
- **Cellspacing:** Defines the space between the cells in the table.  
**Example:** `<table cellspacing="10">` (adds 10px of space between cells).
- **Cellpadding:** Specifies the space between the content of a cell and its border.  
**Example:** `<table cellpadding="15">` (adds 15px of padding inside each cell).
- **Width:** Sets the width of the table.  
**Example:** `<table width="500">` (sets the table width to 500 pixels).
- **Height:** Specifies the height of the table.  
**Example:** `<table height="300">` (sets the height of the table to 300 pixels).
- **Align:** Aligns the table horizontally.  
**Example:** `<table align="center">` (centers the table on the page).

# (TABLE ROW) ELEMENT ATTRIBUTES:

- **align:** Specifies the horizontal alignment of the content inside the row.  
▪ **Example:** `<tr align="center">` (centers the content of the row).
- **valign:** Specifies the vertical alignment of the content inside the row.  
▪ **Example:** `<tr valign="top">` (aligns the content to the top of the row).

# (TABLE HEADER CELL) ELEMENT ATTRIBUTES:

- **colspan**: Defines the number of columns a header cell should span.

**Example:** `<th colspan="2">Header Cell</th>` (spans across two columns).

- **rowspan**: Defines the number of rows a header cell should span.

**Example:** `<th rowspan="2">Header Cell</th>` (spans across two rows).

- **align**: Specifies the alignment of the content inside the header cell.

**Example:** `<th align="center">Header</th>` (centers the header text).

# (TABLE DATA CELL) ELEMENT ATTRIBUTES:

- **colspan**: Defines the number of columns a cell should span.

**Example:** `<td colspan="3">Data Cell</td>` (spans across three columns).

- **rowspan**: Defines the number of rows a cell should span.

**Example:** `<td rowspan="2">Data Cell</td>` (spans across two rows).

- **align**: Specifies the horizontal alignment of the content inside the data cell.

**Example:** `<td align="right">Data</td>` (aligns the content to the right).

- **valign**: Specifies the vertical alignment of the content inside the data cell.

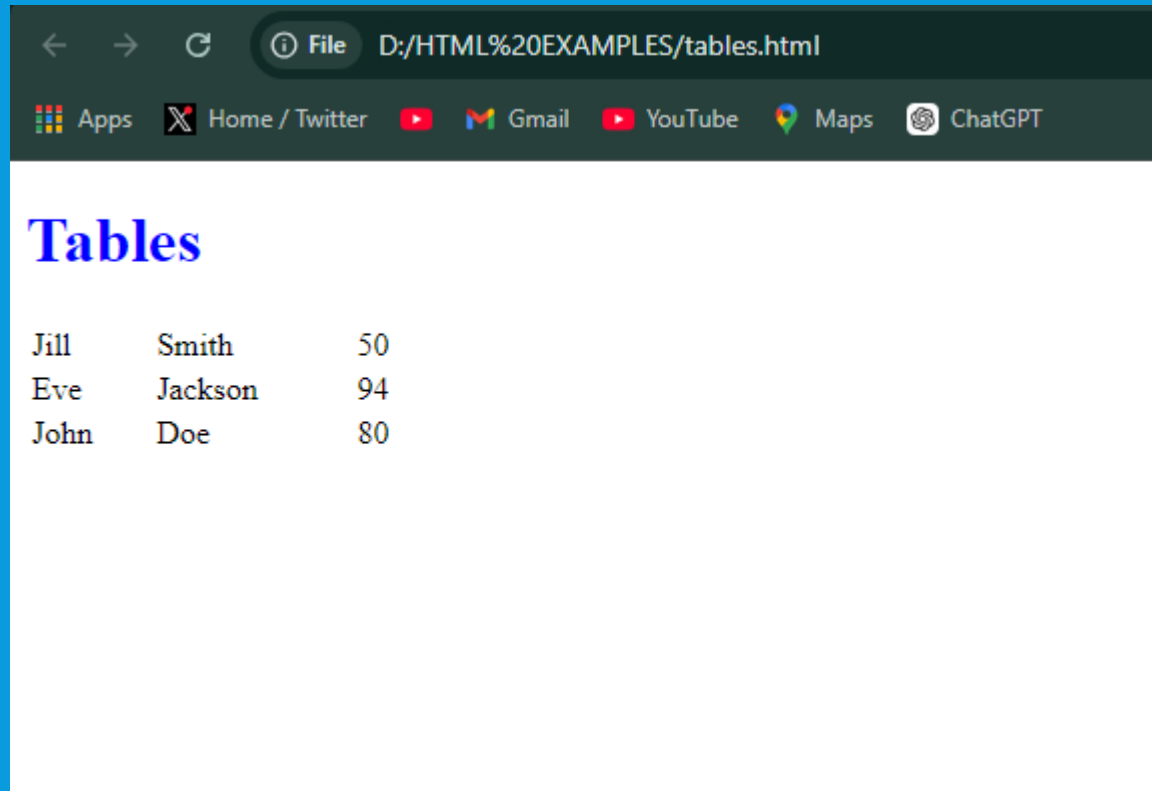
**Example:** `<td valign="bottom">Data</td>` (aligns the content to the bottom of the cell).

# EXAMPLE

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Tables Example</title>
7  </head>
8  <body>
9    <h1 style="color: blue;">Tables</h1>
10
11    <table style="width:200px">
12      <tr>
13        <td>Jill</td>
14        <td>Smith</td>
15        <td>50</td>
16      </tr>
17      <tr>
18        <td>Eve</td>
19        <td>Jackson</td>
20        <td>94</td>
21      </tr>
22      <tr>
23        <td>John</td>
24        <td>Doe</td>
25        <td>80</td>
26      </tr>
27    </table>
28
29  </body>
30 </html>
```

# OUTPUT

- The output wont show with a table like because border wasn't include

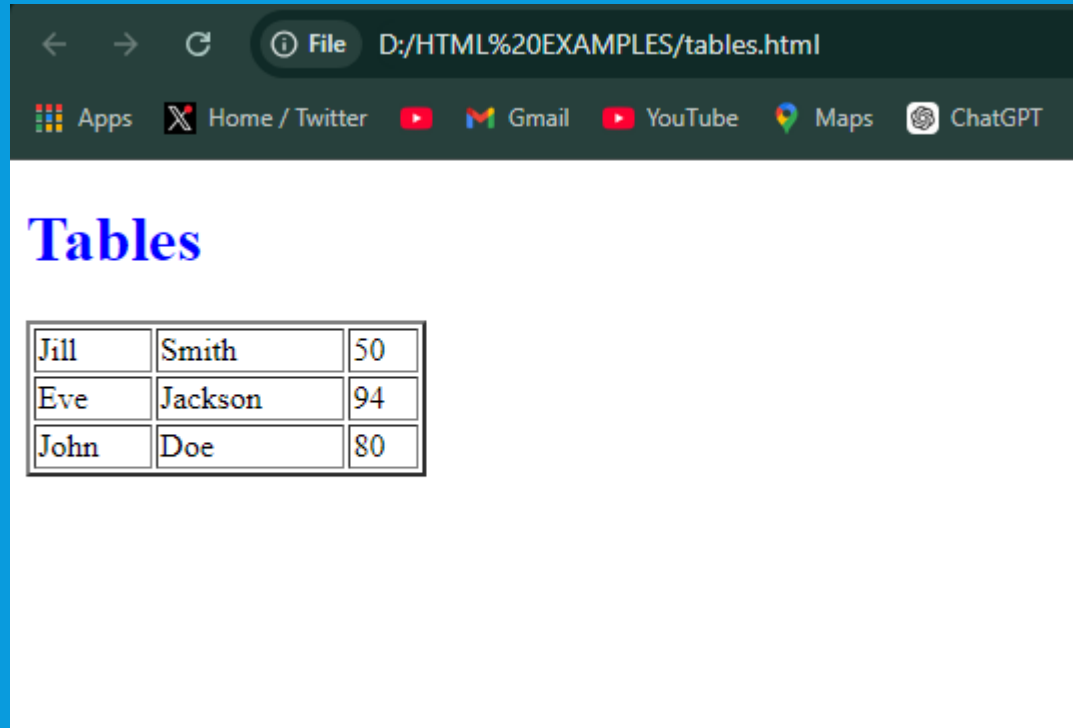




# EXAMPLE WITH BORDER INCLUDED

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Tables Example</title>
7  </head>
8  <body>
9    <h1 style="color: blue;">Tables</h1>
10
11    <table border="1" style="width:200px">
12      <tr>
13        <td>Jill</td>
14        <td>Smith</td>
15        <td>50</td>
16      </tr>
17      <tr>
18        <td>Eve</td>
19        <td>Jackson</td>
20        <td>94</td>
21      </tr>
22      <tr>
23        <td>John</td>
24        <td>Doe</td>
25        <td>80</td>
26      </tr>
27    </table>
28
29  </body>
30  </html>
31
```

OUTPUT : TO MAKE JUST A TABLE JUST ADD A BORDER INSIDE THE TABLE AS SHOWN ABOVE



A screenshot of a web browser window. The address bar shows the file path 'D:/HTML%20EXAMPLES/tables.html'. The browser's toolbar includes icons for 'Apps', 'Home / Twitter', 'Gmail', 'YouTube', 'Maps', and 'ChatGPT'. The main content area displays the word 'Tables' in a large, blue, serif font. Below the text is a table with three rows and three columns. The first row contains 'Jill', 'Smith', and '50'. The second row contains 'Eve', 'Jackson', and '94'. The third row contains 'John', 'Doe', and '80'. The table has a thin black border around each cell.

Jill	Smith	50
Eve	Jackson	94
John	Doe	80

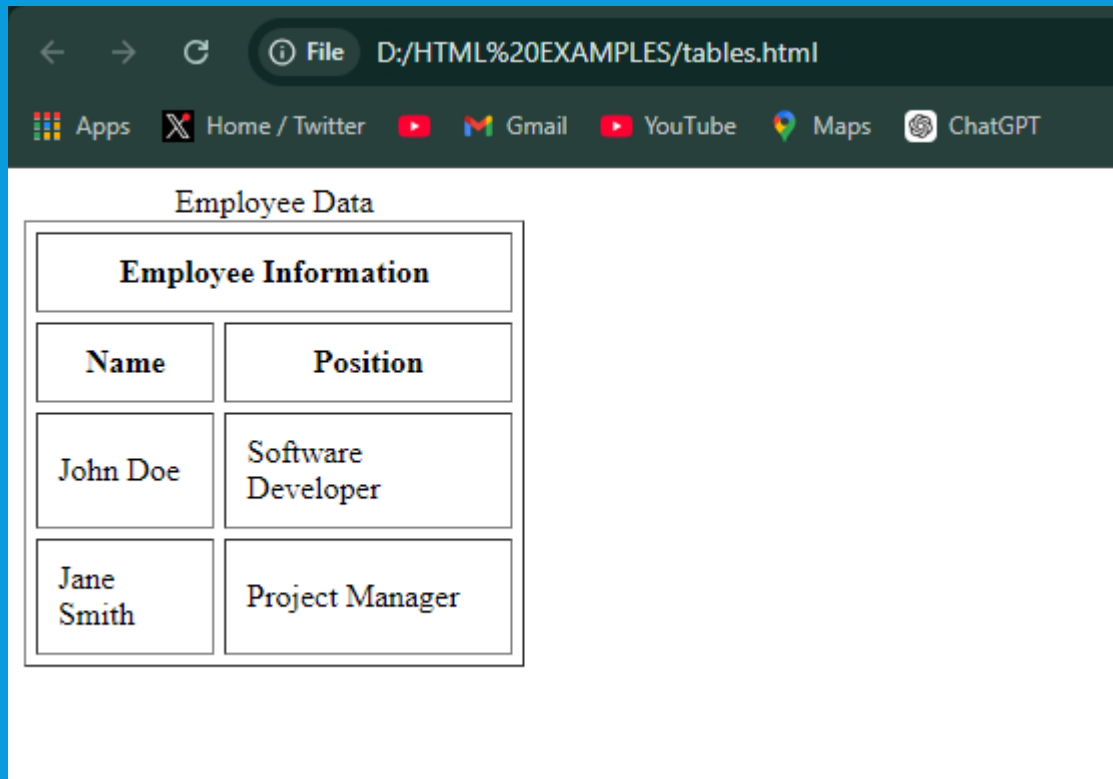
# ADDING BORDER USING CSS STYLE, THE OUTPUT WILL BE THE SAME AS THE ABOVE ONE

```
1  <!DOCTYPE html>
2  <head>
3    <title>Tables Example</title>
4    <style>
5      table, th, td {
6        border: 1px solid black;
7      }
8    </style>
9  </head>
10 <body>
11   <h1 style="color: blue;">Tables</h1>
12
13   <table style="width:200px">
14     <tr>
15       <td>Jill</td>
16       <td>Smith</td>
17       <td>50</td>
18     </tr>
19     <tr>
20       <td>Eve</td>
21       <td>Jackson</td>
22       <td>94</td>
23     </tr>
24     <tr>
25       <td>John</td>
26       <td>Doe</td>
27       <td>80</td>
28     </tr>
29   </table>
30
31 </body>
32 </html>
```

# EXAMPLE 1

```
1  <!DOCTYPE html>
2  <head>
3    <title>Sample Table</title>
4  </head>
5  <body>
6
7    <table border="1" cellspacing="5" cellpadding="10" style="width: 250px;">
8      <caption>Employee Data</caption>
9      <thead>
10     <tr>
11       <th colspan="2">Employee Information</th>
12     </tr>
13     <tr>
14       <th>Name</th>
15       <th>Position</th>
16     </tr>
17   </thead>
18   <tbody>
19     <tr>
20       <td>John Doe</td>
21       <td>Software Developer</td>
22     </tr>
23     <tr>
24       <td>Jane Smith</td>
25       <td>Project Manager</td>
26     </tr>
27   </tbody>
28 </table>
29
30 </body>
31 </html>
```

# EXAMPLE 1: OUTPUT



The image shows a web browser window with a dark theme. The address bar displays the file path 'D:/HTML%20EXAMPLES/tables.html'. Below the address bar is a taskbar with icons for 'Apps', 'Home / Twitter', 'YouTube', 'Gmail', 'YouTube', 'Maps', and 'ChatGPT'. The main content area displays a table titled 'Employee Data'.

Employee Information	
Name	Position
John Doe	Software Developer
Jane Smith	Project Manager

# EXAMPLE 2: LETS ADD A SALARY COLUMN ON THE EXAMPLE 1

- The screenshot only shows the table don't forget to include the html,head and body

```
<table border="1">
  <tr>
    <th>Name</th>
    <th>Position</th>
    <th>Salary</th>
  </tr>
  <tr>
    <td>John Doe</td>
    <td>Software Developer</td>
    <td>$85,000</td>
  </tr>
  <tr>
    <td>Jane Smith</td>
    <td>Project Manager</td>
    <td>$95,000</td>
  </tr>
  <tr>
    <td>Samuel Brown</td>
    <td>UI/UX Designer</td>
    <td>$70,000</td>
  </tr>
  <tr>
    <td>Emily White</td>
    <td>QA Tester</td>
    <td>$65,000</td>
  </tr>
</table>
```

# EXAMPLE 2: OUTPUT

Name	Position	Salary
John Doe	Software Developer	\$85,000
Jane Smith	Project Manager	\$95,000
Samuel Brown	UI/UX Designer	\$70,000
Emily White	QA Tester	\$65,000

# EXAMPLE 3

```
1  <!DOCTYPE html>
2  <body>
3
4  <h2>Outer Table with Inner Table</h2>
5
6  <table border="3">
7    <tr>
8      <th>Employee Name</th>
9      <th>Details</th>
10   </tr>
11   <tr>
12     <td>John Doe</td>
13     <td>
14       <!-- Nested Table -->
15       <table border="2">
16         <tr>
17           <th>Position</th>
18           <th>Salary</th>
19         </tr>
20         <tr>
21           <td>Software Developer</td>
22           <td>$85,000</td>
23         </tr>
24       </table>
25     </td>
26   </tr>
27 </table>
28
29 </body>
30 </html>
31
```



# EXAMPLE 3 OUTPUT

**Outer Table with Inner Table**

Employee Name	Details	
John Doe	Position	Salary
	Software Developer	\$85,000

# EXAMPLE FROM KNEC PAST PAPER

- Lets write the code from knec IBP November 2022 Q7c

(c) Write a HTML code that will display the following table when run on a web browser.

Subjects	Date
Database Computer application Data communication	12/08/2022
Communication Skills	13/08/2022

Set the amount of space between the borders of the outer table cells and its contents to be 10 pixels and all the borders to be red for both tables. (10 marks)

# ANSWER TO Q7C

```
1 <!DOCTYPE html>
2 <head>
3   <title>Subjects and Dates Table</title>
4 </head>
5 <body>
6
7   <h2>Subjects and Dates Information</h2>
8
9   <table border="2" style="width: 45%;">
10     <tr>
11       <th colspan="2">Subject</th>
12       <th>Date</th>
13     </tr>
14     <tr>
15       <td colspan="2">
16         <table border="1" style="width: 90%; margin: 10px auto;"> <!-- Centered with margins -->
17           <tr>
18             <td>Database</td>
19             <td>Computer Application</td>
20             <td>Data Communication</td>
21           </tr>
22         </table>
23       </td>
24       <td>2025-01-18</td>
25     </tr>
26     <tr>
27       <td colspan="2" align="center">Communication Skills</td>
28       <td>2025-01-25</td>
29     </tr>
30   </table>
31 </body>
32 </html>
```

# OUTPUT TO Q7C

File

D:/HTML%20EXAMPLES/tables.html

Apps

Home / Twitter

Gmail

YouTube

Maps

ChatGPT

# Subjects and Dates Information

Subject	Date			
<table><tr><td>Database</td><td>Computer Application</td><td>Data Communication</td></tr></table>	Database	Computer Application	Data Communication	2025-01-18
Database	Computer Application	Data Communication		
Communication Skills	2025-01-25			

# EXAMPLE: IBP JULY 2022 Q3D (KNEC)

- Ill just draw the diagram, you can go ahead and add the additional features as per the question

would help him identify the links on the website.

(3 marks)

- (d) The following is a table generated when a HTML code is run on a web browser.

PLACE A BANNER HERE	
Links1	Content goes here
Links2	
Links3	

Table 1

Write the code that would be used to generate table 1 with the following additional features:

- Cell spacing of 1 pixel, Cell padding of size 0 and boarder of size 3;
- First row to have a height of 50 pixel and a background colour of red;
- Second cell to have a width of 30% and background colour of green;
- The text Links1 to link to a page named Home.html.

(10 marks)

4. (a) Outline **four** advantages of using a *dynamic web page*.

(4 marks)

# ANSWER: IBP JULY 2022 Q3D (KNEC)

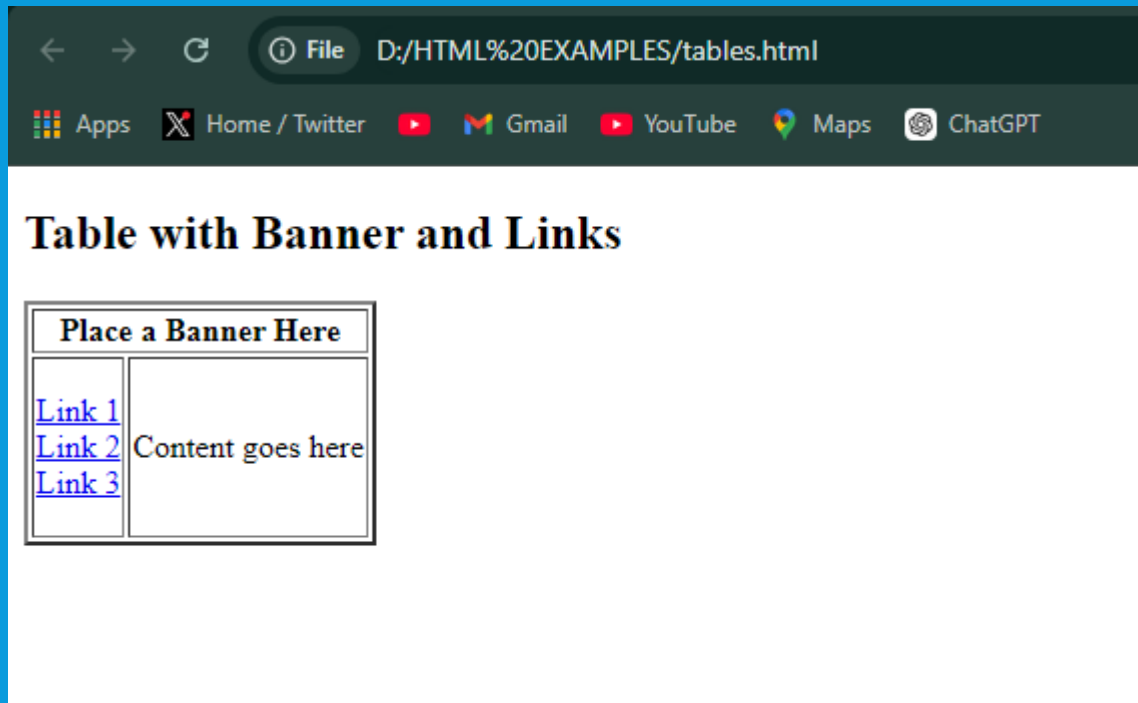
```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Banner Table Example</title>
</head>
<body>

  <h2>Table with Banner and Links</h2>

  <table border="2">
    <tr>
      <th colspan="2">Place a Banner Here</th>
    </tr>
    <tr>
      <td>
        <ul style="list-style-type: none; padding: 0;">
          <li><a href="#">Link 1</a></li>
          <li><a href="#">Link 2</a></li>
          <li><a href="#">Link 3</a></li>
        </ul>
      </td>
      <td>Content goes here</td>
    </tr>
  </table>

</body>
</html>
```

# OUTPUT: IBP JULY 2022 Q3D (KNEC)



# EXAMPLE: IBP NOVEMBER 2021 Q5D (KNEC)

- Ill just draw the diagram you can do the rest

(d) Write a HTML code that would display Table 1 with the following additional specifications:

- background colour code: lime
  - Cell6 height: 100 pixels
- (7 marks)

Cell1	Cell2	Cell3
Cell4	Cell5	
Cell6		

Table 1

6. (a) Distinguish between *applets* and *servlets* as used in the Internet. (4 marks)
- (b) (i) Explain **one** cause of each of the following threats in the Internet:
- (I) cross-site scripting attack; (2 marks)
  - (II) broken authentication and session management. (2 marks)

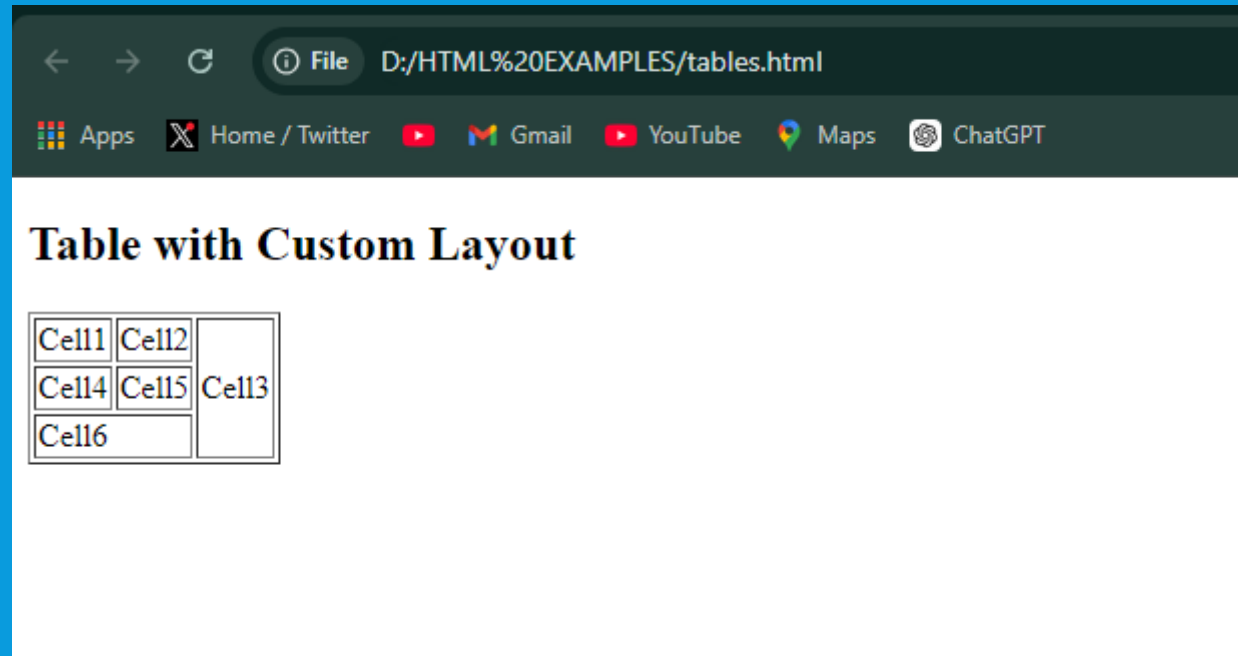


# ANSWER: IBP NOVEMBER 2021 Q5D (KNEC)

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <title>Table Layout Example</title>
5  </head>
6  <body>
7  |
8  |   <h2>Table with Custom Layout</h2>
9  |
10 |   <table border="1">
11 |     <tr>
12 |       <td>Cell1</td>
13 |       <td>Cell2</td>
14 |       <td rowspan="3">Cell3</td> <!-- Cell3 takes up 3 rows -->
15 |     </tr>
16 |     <tr>
17 |       <td>Cell4</td>
18 |       <td>Cell5</td>
19 |     </tr>
20 |     <tr>
21 |       <td colspan="2">Cell6</td> <!-- Cell6 spans two columns -->
22 |     </tr>
23 |   </table>
24 |
25 </body>
26 </html>
27
```

# OUTPUT: IBP NOVEMBER 2021 Q5D (KNEC)

## YOU CAN GIVE THE SPACINGS BETWEEN THE CONTENT AND THE BORDER



The screenshot shows a web browser window with the address bar displaying 'D:/HTML%20EXAMPLES/tables.html'. The browser's taskbar includes icons for Apps, Home / Twitter, YouTube, Gmail, Maps, and ChatGPT. The main content area features the title 'Table with Custom Layout' in a bold, serif font. Below the title is a table with a custom layout. The table has three columns and three rows. The first two columns are of equal width, and the third column is wider. The cells are labeled as follows: Row 1: Cell1, Cell2, (empty); Row 2: Cell4, Cell5, Cell3; Row 3: Cell6, (empty), (empty). The table is styled with a thin border and a small gap between the content and the border.

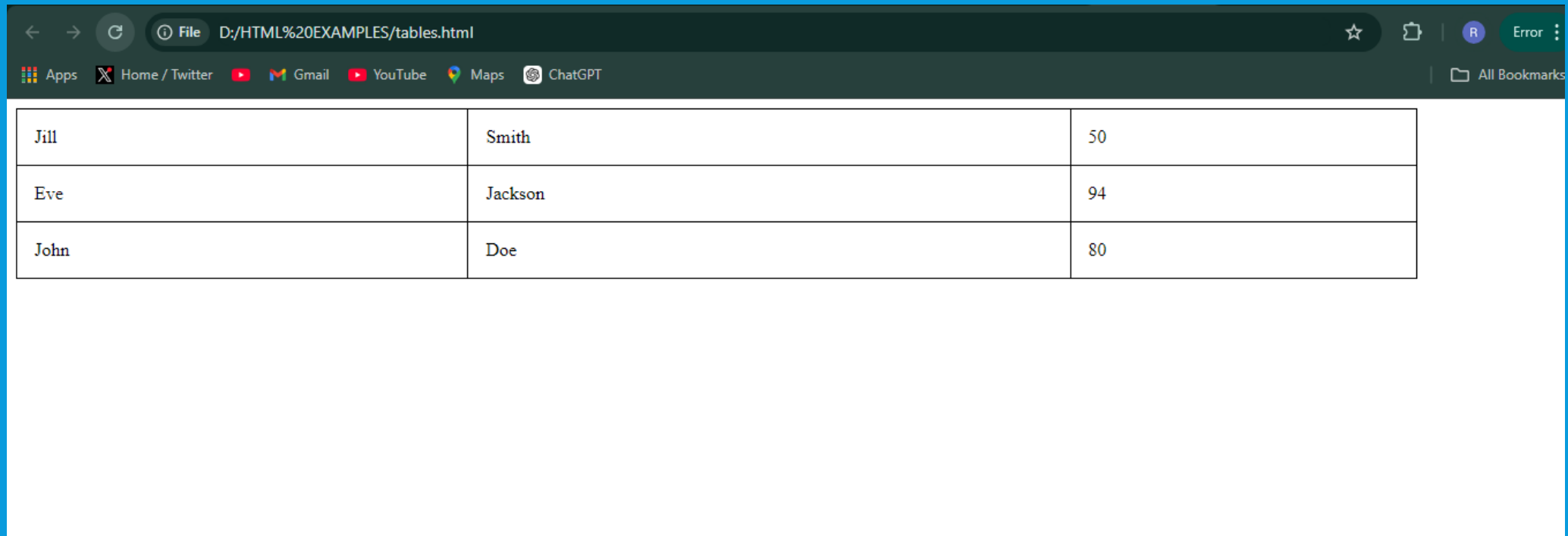
Cell1	Cell2	
Cell4	Cell5	Cell3
Cell6		

# EXAMPLE A: USING CSS

```
<head>
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
th, td {
  padding: 15px;
}
</style>
</head>
<body>

<table style="width:90%">
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
  <tr>
    <td>Eve</td>
    <td>Jackson</td>
    <td>94</td>
  </tr>
  <tr>
    <td>John</td>
    <td>Doe</td>
    <td>80</td>
  </tr>
</table>
```

# EXAMPLE A: OUTPUT



A screenshot of a web browser window. The address bar shows the file path 'D:/HTML%20EXAMPLES/tables.html'. The browser's bookmark bar contains links to 'Apps', 'Home / Twitter', 'Gmail', 'YouTube', 'Maps', and 'ChatGPT'. The main content area displays a table with three rows and three columns. The first row contains 'Jill', 'Smith', and '50'. The second row contains 'Eve', 'Jackson', and '94'. The third row contains 'John', 'Doe', and '80'.

Jill	Smith	50
Eve	Jackson	94
John	Doe	80

# LETS MAKE HEADING TO START ON RIGHT SIDE (TEXT-ALIGN: RIGHT;)

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style>
5 table, th, td {
6     border: 1px solid black;
7     border-collapse: collapse;
8 }
9 th, td {
10     padding: 5px;
11 }
12 th {
13     text-align: right;
14 }
15 </style>
16 </head>
17 <body>
18
19 <table style="width:100%">
20     <tr>
21         <th>Firstname</th>
22         <th>Lastname</th>
23         <th>Points</th>
24     </tr>
25     <tr>
26         <td>Jill</td>
27         <td>Smith</td>
28         <td>50</td>
29     </tr>
30     <tr>
31         <td>Eve</td>
32         <td>Jackson</td>
```

```
32         <td>Jackson</td>
33         <td>94</td>
34     </tr>
35     <tr>
36         <td>John</td>
37         <td>Doe</td>
38         <td>80</td>
39     </tr>
40 </table>
41
42 </body>
43 </html>
44
```

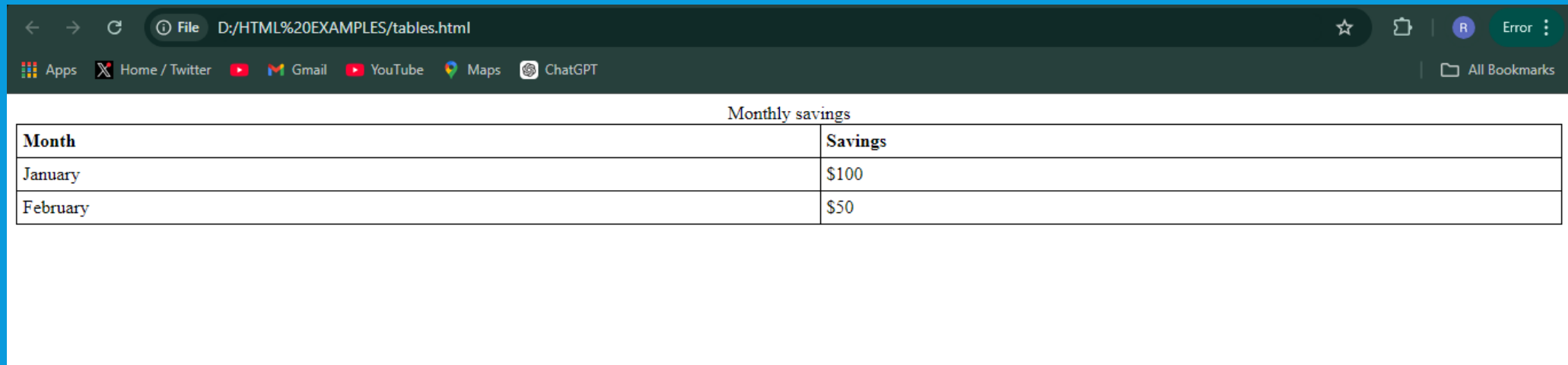
# OUTPUT: THE HEADINGS, FIRSTNAME , LASTNAME AND POINTS ARE ALIGNED TO THE RIGHT

Firstname	Lastname	Points
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

# EXAMPLE B: WITH CAPTION AT LINE 18

```
4  <style>
5  <table, th, td {
6      border: 1px solid black;
7      border-collapse: collapse;
8  }
9  th, td {
10     padding: 5px;
11     text-align: left;
12 }
13 </style>
14 </head>
15 <body>
16
17 <table style="width:100%">
18   <caption>Monthly savings</caption>
19   <tr>
20     <th>Month</th>
21     <th>Savings</th>
22   </tr>
23   <tr>
24     <td>January</td>
25     <td>$100</td>
26   </tr>
27   <tr>
28     <td>February</td>
29     <td>$50</td>
30   </tr>
31 </table>
32
```

# OUTPUT; THE CAPTION MONTHLY SAVINGS



A screenshot of a web browser window. The address bar shows the file path 'D:/HTML%20EXAMPLES/tables.html'. The browser's toolbar includes navigation buttons, a star icon, a share icon, and a user profile icon labeled 'R'. Below the toolbar, there are quick links to 'Apps', 'Home / Twitter', 'Gmail', 'YouTube', 'Maps', and 'ChatGPT'. The main content area displays a table with the caption 'Monthly savings' centered above it. The table has two columns: 'Month' and 'Savings'. It contains three rows of data: January with \$100 savings, and February with \$50 savings.

Month	Savings
January	\$100
February	\$50



# DO MORE QUESTION FROM THE PAST PAPERS

And try using different css like external css and style css

And more examples using classes to style

If you have a challenge with drawings from knec pastpapers just contact us  
we can assist you with the drawing for free