Write your name below and indicate your role,	
Project Manager (PM), Recorder (R)	
Name	Role
Name	Role

Tables

You	r Tasks
	Write code to create a table
	Write code to create a table heading
	Have Ms. Pluska check off the above tasks
	Write code to span rows and columns
	Receive credit for the group portion of this lab

□ Write code to create a table

There are many websites on the Internet that display information like stock prices, sports scores, invoice data, and more. This data is naturally tabular in nature, meaning that a table is often the best way of presenting the data.

In this lesson, you'll learn how to use HTML tables to present tabular data to users.

Before displaying data, you must first create the table that will contain the data by using the element. All the data associated with your table will go between these tags.

All tables contain rows and within those are cells in which we can store data. The table row tag, $\langle tr \rangle \langle /tr \rangle$, is used to create rows. The table data tag, $\langle td \rangle \langle /td \rangle$, is used to create cells. Consider the example below. The code below creates a table with one row. Each cell within the row displays a day of the week.

Write code that could be used to create a table with two rows. In the first row, breakfast, lunch, dinner should be stored in separate cells. In the second row, Eggs, PB & J, Pizza should be stored in separate cells. When ran your code should display as follows,

Breakfast Lunch Dinner
Eggs PB & J Pizza

□ Create a table heading

Table data doesn't make much sense without titles to describe what the data represents. To add titles to rows and columns, you can use the table heading element: .

The table heading element is used just like a table data element, except with a relevant title. And, just like table data, a table heading must be placed within a table row. This is demonstrated below,

```
Sunday Monday
                                   Tuesday Wednesday Thursday
    <t r>
                          Sleep in Go to school Sleep in
        Sunday
        Monday
        Tuesday
        Wednesday
        Thursday
        Friday
        Saturday
    Sleep in
        Go to school
        Sleep in
```

table headers:	t could be used January, May, J holiday that oo	uly, Septem	ber, October	, Novembei	, December.	In a second
January New years Mo	May emorial day Inde	July pendence da	_		November Thanksgiving	

Have Ms. Pluska check off the above tasks



Before you continue have Ms. Pluska check off the above tasks

Do not continue until you have Ms. Pluska's (or her designated TA's) signature _____

□ Write code to span rows and columns

Recall that rows in an HTML table go across. For example, the code below would produce the following output.

```
Row 1 Row 1 Row 1 Row 1 Row 1 Row 1
       <th>Row 1
                          Row 2 Row 2 Row 2 Row 2 Row 2 Row 2 Row 2
       Row 1
       Row 1
       Row 1
       <th>Row 1
       Row 1
       <th>Row 1
   <th>Row 2
       <th>Row 2
       Row 2
       <th>Row 2
       Row 2
       <th>Row 2
       Row 2
```

Columns on the other hand, go down as illustrated in the following example,

```
Column 1 Column 2 Column 3 Column 4 Column 5 Column 6 Column 7
    Column 1 Column 2 Column 3 Column 4 Column 5 Column 6 Column 7
        Column 1
        Column 2
        Column 3
        Column 4
        Column 5
        Column 6
        Column 7
    Column 1
        Column 2
        Column 3
        Column 4
        Column 5
        Column 6
        Column 7
```

Sunday Monday Tuesday Wednesday Thursday Friday SaturdaySleep in Go to school Go to school Go to school Go to school Sleep in

In this example we wrote "Go to school" 5 days in a row, or across 5 columns. This practice is redundant and the colspan attribute can be used to consolidate these columns and reduce the amoutn of code we need to write. See below,

```
Sunday
       Monday
       Tuesday
       >Wednesday
       Thursday
       Friday
       Saturday
   Sleep in
       Go to school
       Sleep in
   Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Sleep in Go to school
                           Sleep in
```

Although it may not be clear from the output, the cell *Go to school* now spans 5 columns. You can use the bgcolor attribute to change the color of the cell to make this more clear.

```
Sunday
      Monday
      Tuesday
      >Wednesday
      Thursday
      Friday
      Saturday
   Sleep in
      Go to school
      Sleep in
Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Sleep in Go to school
                            Sleep in
```

Write code that creates a table and displays each month as a header across the top. For each season, use the colspan attribute to indicate the season for each month. Use the bgcolor attribute to color each season (winter = lightblue, spring = green, summer = yellow, fall = orange). When ran your code should display as follows,

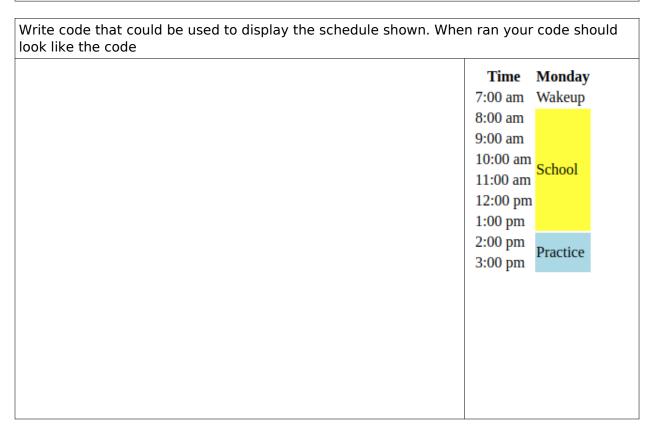
January February	March April May	June July August	September October November	December
		_	- 11	

Winter	Spring	Summer	Fall	Winter

To illustrate the column attribute, let's return to our code that generated the days of the week. Depending on the time, you probably do different things on each day. For example, on Monday you may be in school from 8 to 3, whereas on Saturday you may have soccer practice from 1 to 3. The rowspan attribute enables us to indicate these blocks of time without writing unnecessary code.

```
Time
  Saturday
  Sunday
  Monday
  Tuesday
  Wednesday
  Thursday
  Friday
 8:00 am
>School
 9:00
```

```
10:00
11:00
12:00
>1:00 pmSoccer
2:00
3:00
Time
    Sunday Monday Tuesday Wednesday Thursday Friday
  Saturday
8:00 am
9:00 am
10:00 am
11:00 am
     School
12:00 pm
1:00 pm
 Soccer practice
2:00 pm
3:00 pm
```



□ Receive Credit for the group portion of this lab



- Indicate the names of all group members.
- Have Ms. Pluska check your Tables tasks
- Submit your lab to the needs to be graded folder to receive credit for the group portion of this lab.
- Do not submit your lab until you have Ms. Pluska's (or her designated TA's) signature