

# LAB#8

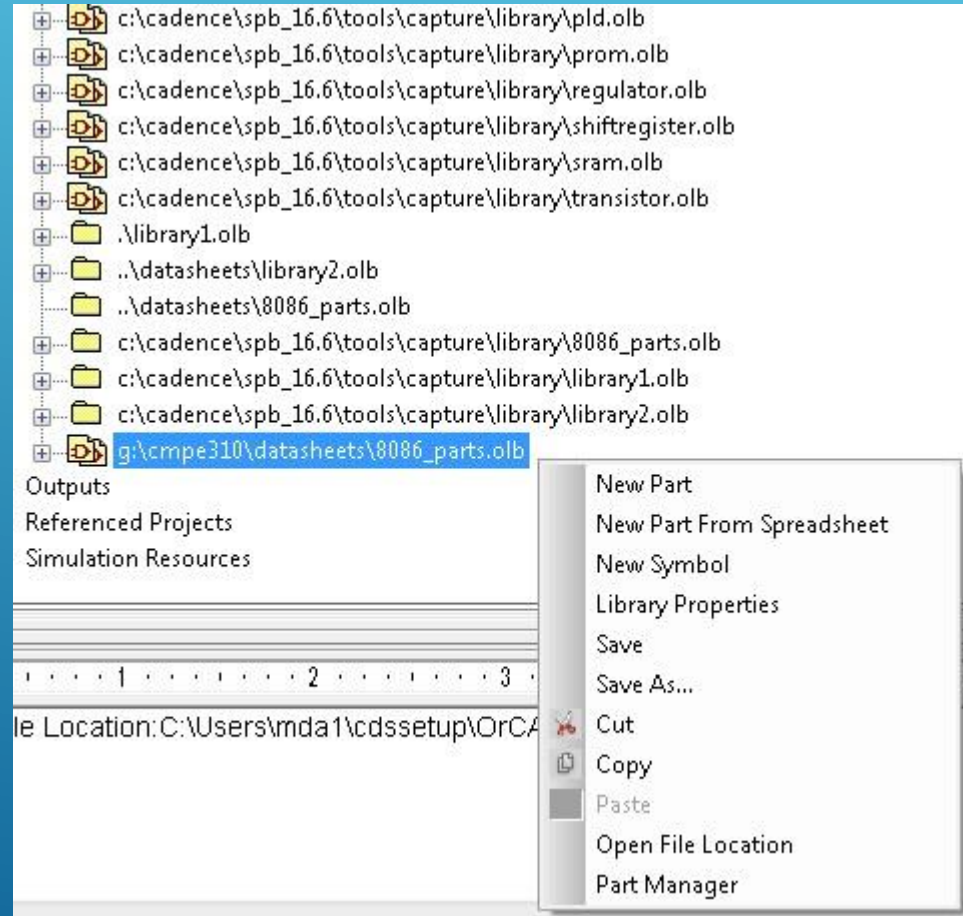
Creating the 7 Segment LED

CMPE 310

Michael Daugherty

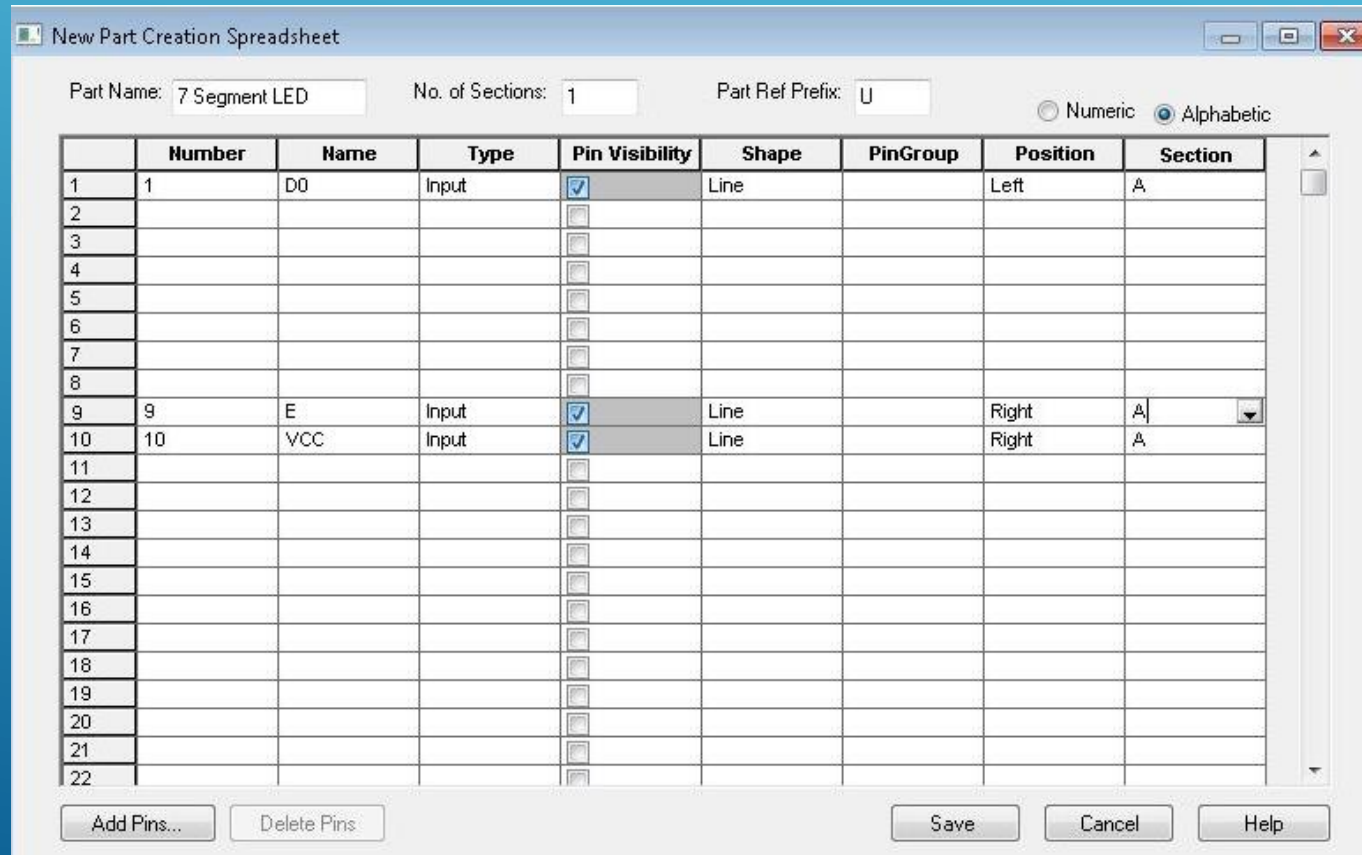
# STEP 1: SELECTING THE LIBRARY

Right click on the library you are adding the part to. Click “New Part From Spreadsheet.”



# STEP 2: FILLING IN THE DETAILS

- Pictured below are a few of the pins filled in to help you understand. Fill out the others based on the LED image in the Lab folder.

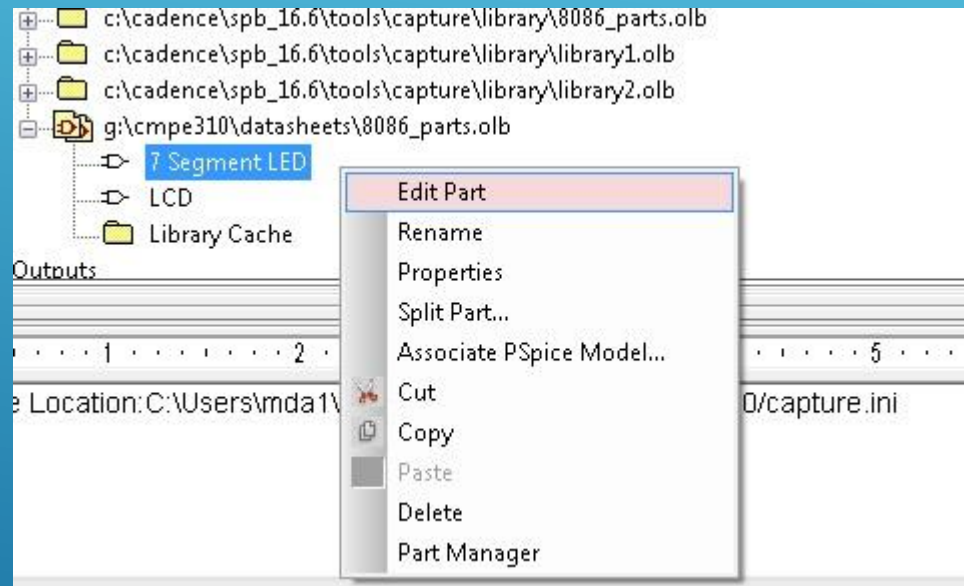


The screenshot shows a window titled "New Part Creation Spreadsheet". At the top, there are input fields for "Part Name: 7 Segment LED", "No. of Sections: 1", and "Part Ref Prefix: U". To the right of these fields are two radio buttons: "Numeric" (unselected) and "Alphabetic" (selected). Below these fields is a table with the following columns: "Number", "Name", "Type", "Pin Visibility", "Shape", "PinGroup", "Position", and "Section". The table has 22 rows. The first row (index 1) is filled with: "1", "D0", "Input", a checked checkbox, "Line", an empty field, "Left", and "A". The second row (index 2) is empty. The third row (index 3) is empty. The fourth row (index 4) is empty. The fifth row (index 5) is empty. The sixth row (index 6) is empty. The seventh row (index 7) is empty. The eighth row (index 8) is empty. The ninth row (index 9) is filled with: "9", "E", "Input", a checked checkbox, "Line", an empty field, "Right", and "A". The tenth row (index 10) is filled with: "10", "VCC", "Input", a checked checkbox, "Line", an empty field, "Right", and "A". The remaining rows (indices 11 through 22) are empty. At the bottom of the window, there are four buttons: "Add Pins...", "Delete Pins", "Save", and "Cancel". A "Help" button is also present on the far right.

	Number	Name	Type	Pin Visibility	Shape	PinGroup	Position	Section
1	1	D0	Input	<input checked="" type="checkbox"/>	Line		Left	A
2				<input type="checkbox"/>				
3				<input type="checkbox"/>				
4				<input type="checkbox"/>				
5				<input type="checkbox"/>				
6				<input type="checkbox"/>				
7				<input type="checkbox"/>				
8				<input type="checkbox"/>				
9	9	E	Input	<input checked="" type="checkbox"/>	Line		Right	A
10	10	VCC	Input	<input checked="" type="checkbox"/>	Line		Right	A
11				<input type="checkbox"/>				
12				<input type="checkbox"/>				
13				<input type="checkbox"/>				
14				<input type="checkbox"/>				
15				<input type="checkbox"/>				
16				<input type="checkbox"/>				
17				<input type="checkbox"/>				
18				<input type="checkbox"/>				
19				<input type="checkbox"/>				
20				<input type="checkbox"/>				
21				<input type="checkbox"/>				
22				<input type="checkbox"/>				

# STEP 3: VISUAL EDITING

- ▶ After creating the part, right click on it from the library listing as shown below:



# STEP 4: FINAL TOUCHES

- ▶ Using the tools on the tool bar, as shown by the boxed area, make your 7 Segment LED part look like the part in the picture.

