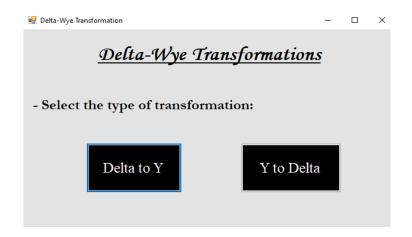
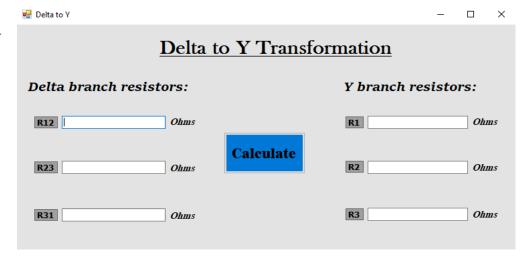
This program gets the 3 resistances of a Delta-Wye or Wye-Delta transformation by inputting the initial branch resistances and applying the rules. If Windows recognizes the program as unsafe, click on **More Info** then **run anyway**. Follow these steps:

1) Extract Circuits.zip to a specified folder on your computer and open it then open DeltaWye.exe file. A screen identical to the one on the right will show up with 2 options to choose from:

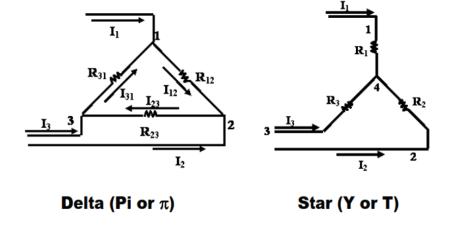


2) Select either Delta to Y transformation or Y to Delta transformation by clicking on one of them. Let's say you chose Delta to Y, this is what you'll see:



3) Now you should input the 3 values of the Delta branch resistances in the first 3 boxes shown on the left. Make sure not to leave one of them empty or else an error occurs since we must have all 3 resistances to satisfy the rule. Enter the 3 resistances (in ohms) according to the following connection:

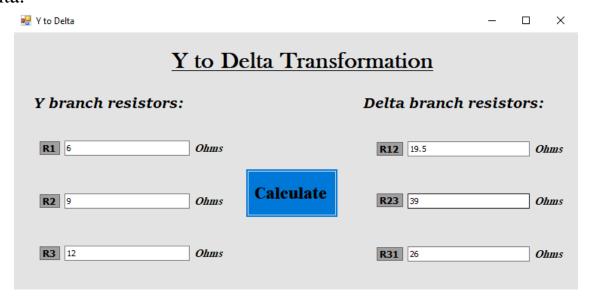
Star - Delta Transformation



4) Once you press **Calculate**, the program will get the Y branch resistors using the formula and display it on the last 3 boxes (R1, R2, R3) on the right. Example:

. □ Delta to Y	- 🗆 X
Delta to Y Transformation	
Delta branch resistors:	Y branch resistors:
R12 10 Ohms	R1 2 Ohms
R23 6 Calculate	R2 3 Ohms
R31 4 <i>Ohms</i>	R3 1.2 <i>Ohms</i>

5) Now, you can close the Delta to Y screen and go back to the main page to undergo more transformations as long as you like whether it is delta to Y or Y to Delta.



6) Finally, close the program when you're done.

Note: In case the .exe file doesn't run or open for any particular reason, a recording of the above procedure called Recording.mp4 is found in the Circuits.zip file to illustrate how the GUI program works.