

**Exercices**  
**27 January 2012**

- 1) Run the script **filestoXYYY.py** to merge the spectra tables of the blue, green, red and yellow diodes into a single file. The four spectra files are in the **pcfb/examples/spectra** folder. The script is in the **pcfb/examples/scripts** folder. Make sure that you call the script appropriately with the required arguments.
  
- 2) Run the script **filestoXYYY.py** again to merge only two spectra tables, from the blue and green diodes.
  
- 3) Copy the **filestoXYYY.py** script under a new name (**filestoXYYY-skipline.py** for example). Add a bit of code allowing the user to enter the number of lines to skip as the first argument, before the list of filenames. For example, **filestoXYYY-skiplines.py 17 LED\*.txt** will skip the 17 first lines including the header line.
  
- 4) Copy the **filestoXYYY.py** script under a new name (**filestoXYYY-Xuserdef.py** for example). Modify this script so that only wavelengths higher than 400 are included in the resulting file. You should add or modify two `if` loops: one for processing the first file and one for processing the other files.
  
- 5) Modify the **filestoXYYY-Xuserdef.py** script so that the user must specify the beginning of the wavelength as an argument when the script is called, such as:  
**filestoXYYY-Xuserdef.py 400 LED\*.txt**
  
- 6) Same but with the user specifying the first and last wavelength:  
**filestoXYYY-Xuserdef.py 400 800 LED\*.txt**