

## Employee Scheduling Exercise Sheet

After setting up the python script to work and taking time to read and understand the explainer, please attempt the following tasks:

1. Change num\_days from 4 to 56. Assume first day is a Monday
2. Update all\_nurses and num\_nurses variables to work with data imported from Nurses.csv
3. With a similar logic used to evenly distribute all shifts, evenly distribute all weekend shifts (Saturdays and Sundays, again assume first day is a Monday)
4. Within the script summarize the solution data to illustrate how many total and weekend shifts each nurse has been given
5. For shifts 0 and 1, ensure that a nurse does not work either of these shifts for two days consecutively
6. For shift 2, ensure that the nurse working shift 2 on a Monday, also works shift 2 on Tuesday and Wednesday
7. Ensure each nurse works no more than 4 shifts a week (Mon-Sun).
8. Ensure nurses from Team A do not work shift 0
9. Ensure no more than 1 nurse from each team is working each day