

# Group Assessment - 'Santa's Payroll'

Worth 20% of final mark for module

Time Allowed : 2 hours

**Work in groups of THREE. You may choose the groups yourselves.**

Santa has a system for keeping track of his elves working hours.

The names of the elves are already present in the system. For the purposes of this program you can presume that he has ten elves.

The rate of pay per hour is also in the system. It is the same for all elves.

Santa should be presented with a menu which allows the following actions to be performed.

The following are the requirements for the system

- Santa should be able to log hours for an elf.
- Santa should be able to reset the hours for all elves with one action.
- Santa should be able to print out his current wage bill. This should include
  - The pay due to each elf
  - The total pay due to all his elves.
- Search for an elf by name and print out his name and hours.
- Be able to quit the system.

## For this assessment you need to produce.

- A **data flow diagram** for the system ( An online tool like <https://www.draw.io/> would be suitable). If using this tool please export your diagram as an image file.
- **Pseudo Code** for the entire system. This can be more than one file of pseudo code.

## To submit your solution :

Submit your files attached to an e-mail to me at [simon.long@cit.ie](mailto:simon.long@cit.ie)

## NOTE :

The **subject of the e-mail** should be PSP1 - GROUP ASSIGNMENT

Please put the **names of your group** at the top of the e-mail.