ASSIGNMENT

Write a program in C that prints out a list of names and occupations from input entered via the keyboard. Your program should ask for:

First Name
Last Name
Occupation

After collecting this information for one person, your program should ask the user if another person should be entered. Once the answer is that another person should NOT be entered the program should ask if the list should be printed to the screen. You should enter at least four people into the database.

The output should look something like the following, although the formatting is up to you.

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>John</td>
<td>Smith</td>
<td>Student</td>
</tr>
<tr>
<td>Mary</td>
<td>Jones</td>
<td>Welder</td>
</tr>
<tr>
<td>Angelo</td>
<td>Giacconi</td>
<td>Radiographer</td>
</tr>
<tr>
<td>Green</td>
<td>Person</td>
<td>Alien</td>
</tr>
</tbody>
</table>

Marking Scheme

The program will be marked out of 10, with the following breakdown:

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adequate Comments</td>
<td>3</td>
</tr>
<tr>
<td>Clearly set out, with indentations and spacing used for clarity</td>
<td>1</td>
</tr>
<tr>
<td>Output correct</td>
<td>4</td>
</tr>
<tr>
<td>Output Format Clear and Easy to read</td>
<td>2</td>
</tr>
</tbody>
</table>
Submitting assignments for PHYS2020:

Please email this assignment to mariac@unsw.edu.au in the following format:

Note: Your assignments will be marked automatically, so it is important that you follow these submission instructions exactly so the computer doesn't decide you should get zero!

To submit you must e-mail the program and its output to me (Maria Cunningham. mariac@phys.unsw.edu.au or mariac.cunningham@unsw.edu.au) before the deadline indicated for each assignment. You also must send the e-mail with a subject heading like "PHYS2020 assignment=1 student=3012345". Do not use attachments, put the program and the output from the program in the e-mail message itself, as described below. Late assignments will have marks deducted (5% per day late), unless prior arrangements have been made.

Here is an example of how to submit the "hello.c" program, from a GNU/Linux or FreeBSD (e.g, ugrad.phys.unsw.edu.au) system using the bash shell (to determine whether you are using bash, type ps -x and see if you have a line containing "-bash"; If you don't seem to be running bash just type bash at the prompt.):

gcc hello.c
./a.out &> output
cat hello.c output | mail -s "PHYS2020 assignment=1 student=3012345" mariac@phys.unsw.edu.au

Notes:

- The first line compiles the program "hello.c".
- "./a.out &> output" writes the output (and any errors) from the program to the file output.
- The final line mails the program and its output/errors to me with the subject "PHYS2020 assignment=1 student=3012345".

If you wish to e-mail me with a question about the course, don't use "PHYS2020" in the subject, since it will disappear into my automated assignment processing program, from where it is unlikely to reappear...

Assignment submission checklist:

- Use a subject like "PHYS2020 assignment=1 student=3012345".
• Include both the program and the output in the e-mail message.
• *Do not use attachments.*
• Any explanatory comments should be included as part of the program source code.
• The assignment is due by the deadline given for each assignment below.

Common problems that cost people marks:

• Misinterpreting the question.
• Not including the output with the source code.
• No documentation included with the program.

**IMPORTANT NOTE:** the assignment should be your own work. It is OK to seek advice from other students, and solve problems as part of a team, but you should submit programs that you constructed yourself, and you should understand them completely. If you submit a program written in large part by someone else, then this is plagiarism, and can result in severe consequences.