IOT1025 – Semester Long Assignment – Part #1

# Resources

This portion of the semester long assignment will cover material from chapters 2 & 3.

# Scenario

Your manager comes to you on a Friday at 3:00 PM with a list of new employees that are starting Monday morning and needs accounts created for them as soon as possible. They’ve provided you with an excel sheet with the names of the employees as well as which department they are a part of. You will need to create a utility that can read in these employees names and create their accounts as well as add them to their appropriate group.

The following should be done in your utility:

1. Read in the file that contains users first and last names as well as the department that they work in (File is located on Moodle)
2. For each line do the following:
   1. Check if the user exists (Note that there are duplicates in the file)
      1. If the user does not exist, go ahead and create it using the following naming format:

First character of first name followed by the first 7 characters of their last name (Should be 8 characters in length but can be less if the users last name is less than 8 characters)

Example: First name is Bradley and last name is Williams so username will be bwilliam

* + 1. If the user already exists then show an error to the user of the utility and continue to the next user
  1. Check if the department that the user works in has an associated group
     1. If the group does not exist then create a new one with the exact department name in the file
     2. If the group already exists then show an error to the user of the utility and continue to the next user
  2. Make the users primary group their department group

1. Once each user in the file has been checked, output a final message to the user stating how many new users were added as well as how many new groups were added in total.

Your script should be named UserCreationUtility.sh

# Grading Scheme

|  |  |
| --- | --- |
| ***Task*** | ***Total Marks Available*** |
| *Script runs successfully without any errors* | *10 Marks* |
| *Each user from the file is added successfully* | *15 Marks* |
| *Each users username follows the naming standard specified* | *5 Marks* |
| *Error message is shown when a user already exists* | *2 Marks* |
| *Error message is shown when a group already exists* | *2 Marks* |
| *Error message is shown when a user is already a member of the group specified* | *2 Marks* |
| *Final message is shown with the correct details* | *5 Marks* |
| *Proper Comments* | *5 Marks* |

# Final Mark: /46