

# Dictionaries Challenge 22: Database Admin Program

## Description:

You are responsible for writing a program that will simulate logging into a database and prompting a user to change their password. All usernames and passwords to the database will be stored in a dictionary. Upon entering the correct credentials, your program will prompt the user to enter a new password that is a minimum of eight characters long. If the new password meets the criteria, it will be accepted, otherwise the new password will be rejected. If the user who logged in is the admin, a list of all usernames and passwords will be displayed.

## Step By Step Guide:

- Print a welcome message.
- Create a dictionary called "log\_on\_information".
  - The key-value pairs in this dictionary will be username:password.
  - Store 5 keys.
    - Each key should be a string representing a username.
    - One username must be "admin00".
  - Store 5 values.
    - Each value should be a string representing a password at least 8 characters long.
- Get user input for their username.
- Follow the following conditional logic to control user interaction.
- If the username is in the database, get user input for their password.
  - If they enter the password correct, greet them with a message.
    - If the user that logged in is the admin00, display the whole dictionary.
    - Else, if the user who logged in is not the admin, ask the user if they would like to change their password.
      - If the user wants to change their password, ask them for their new password and inform them that the password must be 8 characters long.
        - If the password is not 8 characters long, do not accept.
        - Else, If the password is 8 characters long or more, accept and display the username and new password.
      - Else, if the user does not want to change their password, print a goodbye message.
  - Else, if the user enters their password incorrectly, inform the user.
- Else, If the username is not in the database, inform the user.
- Use at least 2 comments to describe sections of your code.
- "Chunk" your code so that is readable.
- Use appropriate and informative variable names.
- Format your output as below.

**Example Output 1:**

Welcome to the Database Admin Program

Enter your username: admin00

Enter your password: admin1234

Hello admin00! You are logged in!

Here is the current user database:

Username: mooman74

Password: alskes145

Username: meramo1986

Password: kehns010101

Username: nickyD

Password: world1star

Username: george2

Password: booo3oha

Username: admin00

Password: admin1234

**Example Output 2:**

Welcome to the Database Admin Program

Enter your username: mooman74

Enter your password: alskes145

Hello mooman74! You are logged in!

Would you like to change your password: yes

What would you like your new password to be: 123456789

mooman74 your password is 123456789

**Example Output 3:**

Welcome to the Database Admin Program

Enter your username: nickyD

Enter your password: world1star

Hello nickyD! You are logged in!

Would you like to change your password: yes

What would you like your new password to be: helpme  
helpme not the minimum eight characters.

nickyD your password is world1star

**Example Output 4:**

Welcome to the Database Admin Program

Enter your username: george2

Enter your password: happy

Password incorrect!

**Example Output 5:**

Welcome to the Database Admin Program

Enter your username: billbobagins

Username not in database, goodbye.