**Habit Tracker**

**Pseudo Code**

Class User:

Properties:

username

password

Class Registration:

Properties:

users: list

Methods:

Signup(username, password):

for each user in users:

if username matches user.username:

return "User already exists"

create new User object with provided username and password

add new User object to users list

return "Registered successfully"

Login(user\_name, user\_password):

for each user in users:

if user\_name matches user.username and user\_password matches user.password:

return "Login successfully"

return "Invalid username or password"

Class Habit:

Properties:

username

name

frequency

progress: list

Methods:

add\_completion(date):

add date to progress list

display\_progress():

display habit name and progress dates

Class HabitTracker:

Properties:

habits: list

Methods:

add\_habit(name, frequency, username):

create new Habit object with provided name, frequency, and username

add new Habit object to habits list

display added habit details

log\_completion(habit\_name, date, username):

find habit in habits list based on name and username

if found, add completion date to habit's progress list

else, display habit not found

find\_habit(habit\_name, username):

search for habit in habits list based on name and username

return the found habit object

display\_all\_habits\_progress(username):

display progress of all habits for a specific username

# Usage:

Create Registration object and HabitTracker object

While True:

Display login system menu

Get user's selection

if selection is '1' (Registration):

Get username and password

Call Signup method of Registration with username and password

Print response

elif selection is '2' (Login):

Get username and password

Call Login method of Registration with username and password

If login is successful:

Display user menu

Get user's selection

Repeat user actions until '5' (Exit) is selected

elif selection is 'e' (Exit):

End the program

else:

Print "Invalid Selection"