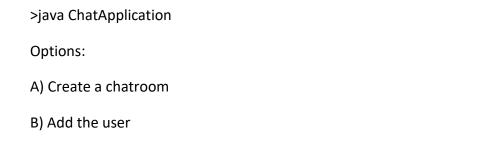
Collection Framework Assignment

- 1. **COLLECTION FRAMEWORK:** Write a class Person having weight, height & name. Create multiple person objects & print them in the sorted order. In the sorting order first sort based upon their weight & it two persons have same weight them sort them based upon their height. Use TreeSet.
- 2. **COLLECTION FRAMEWORK:** Prove that HashSet is unordered & LinkedHashSet is ordered.
- 3. **COLLECTION FRAMEWORK:** Create a ArrayList with few elements & print it in backward direction. Use ListIterator.
- 4. **COLLECTION FRAMEWORK:** Write a program using Hashtable or HashMap where Date of birth is a key & Employee name as value. Design the class Date is such a way where the get method fails if two employees have same day & month of birth but birth year is different.
- 5. **COLLECTION FRAMEWORK:** Write a user defined class say Employee that overrides equals() & hashCode() methods. Equals() always returns true & hashCode() always returns a fixed number. Make such a class as key of you Hashtable. Observe the behavior while calling put & get methods.
- 6. **COLLECTION FRAMEWORK:** Implement the console based chatting using collections. Here are the options to be placed for to the user:



D) Send a message

C) User login

- E) Display the messages from a specific chatroom
- F) List down all users belonging to the specified chat room.
- G) Logout
- H) Delete an user

I) Delete the chat room.

Please enter your option:

- 7. **COLLECTION FRAMEWORK**: There is parking slot available in R-Mall with 3 floors; each floor has 4 sections and each section can maximum park 20 cars. You need to design one application which will maintain all car details in such way when a car owner arrives to collect his care your application should provide details including where it is located.
 - a. Create class Parked_CarOwner_Details which will have field's owerName, carModel, carNO, owerMobileNo, owerAddress with setter and getter methods.
 - b. Create class Parked_CarOwenerList which will have method's int add_new_car(Parked_CarOwner_Details obj), remove_car(), get_parked_car_location(token)
- 8. **COLLECTION FRAMEWORK:** Test fail-fast & fail-safe iterators within multithreaded environment. Note example of fail fast iterator is Vector, ArrayList, HashSet etc. And fail-safe is ConcurrentHashMap, CopyOnWriteArrayList etc.
- 9. **COLLECTION FRAMEWORK:** Create a Class SavingAccount with field's acc_balance, acc_ID, accountHoldername, isSalaryAccount. Also add setter and getter methods with business method like withdraw and deposit.
 - a. Create class BankAccountList which will maintain SavingAccount objects. Ensure
 that this class should not allow duplicates as well as data should be displayed in
 sorted order. (as per acc_ID)
- 10. **COLLECTION FRAMEWORK:** Create class Movie_Details with field's mov_Name, lead_actor, lead_actories, and genre add setter and getter method in that class.
 - a. After creating this class create class Movie_DetailsList class who will maintain all the objects.
 - b. Movie_DetailsList class should have method add_movie(), remove_movie(), remove_AllMovies(), find_movie_By_mov_Name(), find_movie_By_Genre()
 - c. Movie_DetailsList should have method which will take an argument that will be use to determine on which to sort