

16. Collections

1. Create an ArrayList of type String with 10 string elements. Add 10 string elements to ArrayList and perform the below operations
 - Add an element to the ArrayList
 - Iterate through the ArrayList by using Iterator object
 - Add an element at a specific index
 - Remove an element from the ArrayList, Remove at an index
 - Update the element at a specific index
 - Check the element is present at a particular index
 - Get an element at a particular index
 - Find out the size of the ArrayList
 - Check the given element is present in the ArrayList
 - Remove all elements of the ArrayList

2. Create a HashMap with at least 10 key value pairs of the Student ID and Name
 - Insert a Key value mapping into the map
 - Fetch the value of a Key
 - Create a clone/copy of HashMap
 - Check if the given Key is in the Map
 - Check if the value is in the Map
 - Check if the map is empty
 - Print the size of the Map to the console
 - Print all the Keys of the map to the console
 - Print all the Values of the map to the console
 - Remove a specific Key-value pair
 - Copy all the elements of the Map to another Map

3. Create a HashSet with at least 10 elements of type String
 - Write program covering all the operations of HashSet