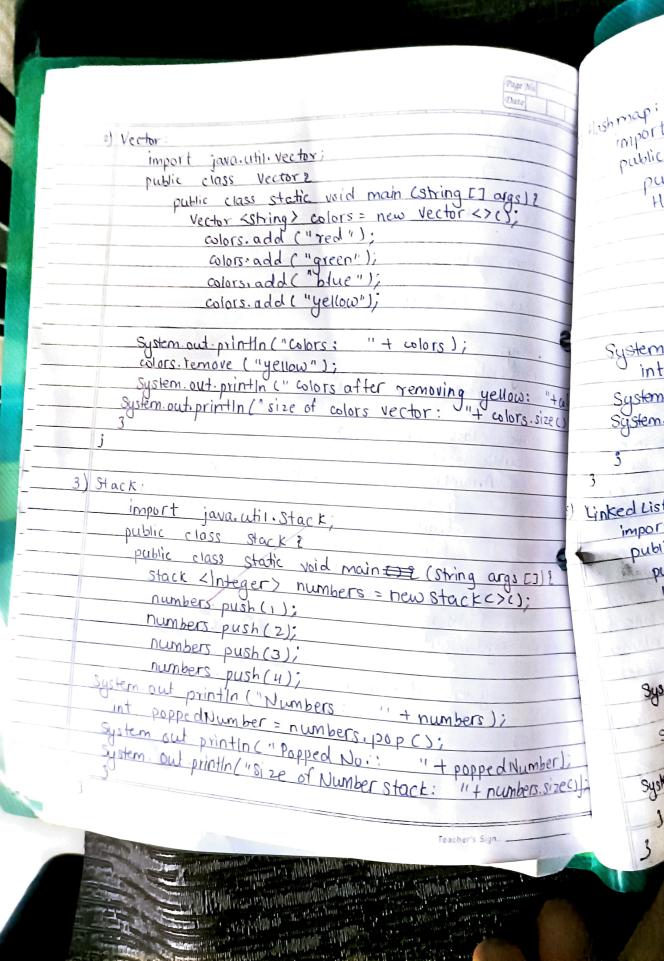
Sulana 332210755 Lab Assignment 5B collection framework in Java n statement: Study of the To study collections in Java er files 4n14 wy ray List: gut java util Arraylist; rublic class Array List & public static void main (String [] args) & Array list < string> fruits = new Array list <> (); dors. Fruits, add ("apple"); fruits add ("banana"); fruits add ("orange"); fruits add ( berry ); Systemout printin ("fruits: "+ fruits). muits remove ("banana"); System out println (" fruits after removing banana: "+

fruits). System out println ("size of fruits Arraylist: " + fruits. size



raport public public

Hash

System. ou Systemiaut

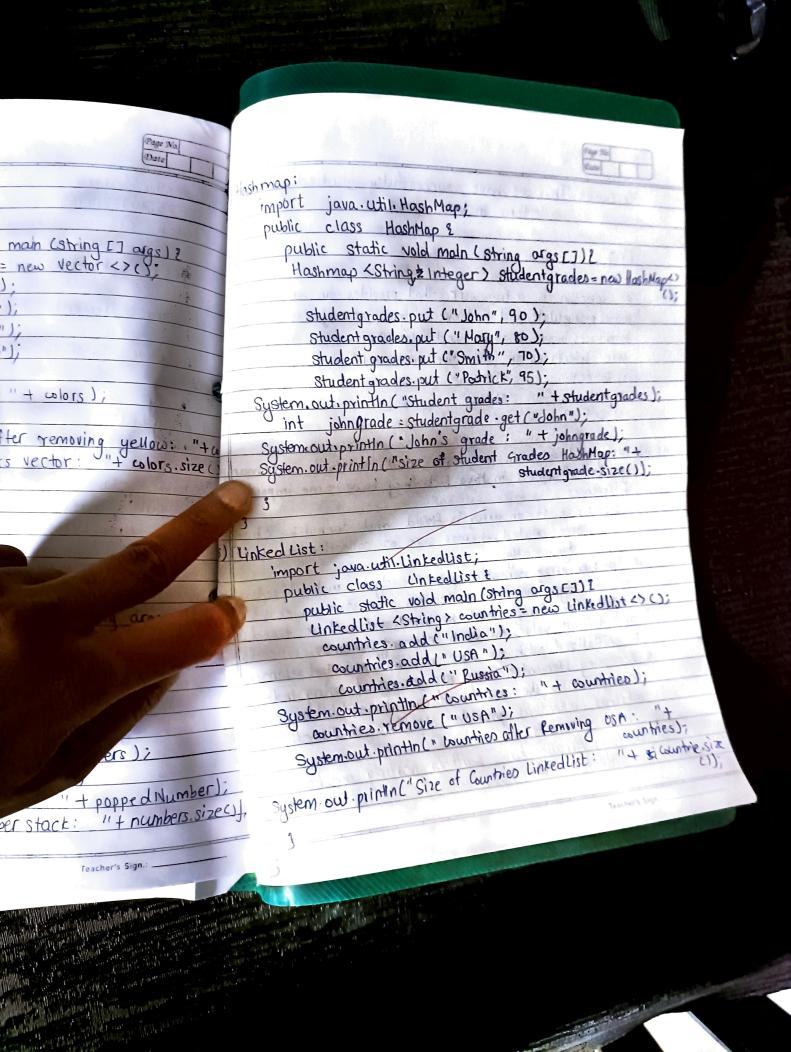
System. out

Linked List: import ; public

public unk

System.

System or



Conclusion Thus, we have successfully studied usage of collections in Java FAQ'S Ans 1) The collection is a framework that provides an architecture. Store, manipulate, and retrieve a group of objects. It includes Interfaces, implementations, and algorithms. core Interfaces in collection framework are: 1) Collection 4) Queue 2) List 5) Map 3) Set Ans 2) Array and collection are both used to store and maripula groups of objects in Java, but they have some important differences: 1. Size: size of an array is fixed and cannot be changed once created, whereas size of collection can be change dynamically. 2. Type: An array can store primitive type and objects of Cut specific type whereas collection can store objects of any 3. Intialization: Arrays must be initialized with a fixed size and default values for each element, whereas whereas impo be initialized with no size or with an initial element. 4. Accessing Elements: Arrays are accessed using Index tha corresponds to the position of an element in array, whereas collections provide iterators and methods to access elements. 5. Sorting: Arrays have built-in sorting mechanism, when Teacher's Sign.: \_

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Memory Management: Arrays consume memory for all elements, studied esage of my consume memory for the elements in use, es an architecture to (mample) java. tetil"; f objects. It includes tragini public class obligation Demo ? public static void main (string[] orgs)? k are: Map m1 = new flashmap(); MI - put ("Zara", " 8"); MI. put ("Mahnaz", "31"); mi put (" Ayan", "12"); m1. put ("Daisy", "14"); store and manipu System. out printin(); System out . println ( Map Elements: e some important System out. printin (" )t " + m1); 3 cannot be changed and objects of Output. Map Elements & Daisy . 14, Ayan = 12, zara = 8, Mahnaz = store objects of only Linted List Example: with a fixed size import java utili \* ; Public class Test collection 7 & public static vold main (string argaes) hereas collection can Unkedlist estring) als new linkedlist estring > (); n initial element. d using Index that entin array. al. add ( "Bavi"); and methods to al-add collyay "); g mechanism, wherea aladd ("Ravi"); al. add ("Ajay"); Teacher's Signal

tterator Lating>itr=al.iterator(); while (itr. has Next())? System. out. println(itr.next()); 3 Output: - Ravi Vijay Ravi Ajay.