Assignment - 3

Ti-Prem kuman Reddy 192211087

Java Programming Englinent 1:84 interface with arraylist and linked 1:84.

regination!

Away 64.

Linked list

This is a resizable away implementation of the list interface. Et provides rondon accept to elements and its efficient for accessing elements by index.

This is a doubly lined list implementation of list interface. Et alions The tast injection and deletion however, accessing elements by index is slower companied to Array lift.

syntan:

- =) Arraylist etype > arraylist = new list < > (1;
- => I indeed life ctype > Imad lift = new lineed lift < > (1);

cale with output:

as Java program demonstrating how to use both maylit and linked list to inflement The list interface.

import. Java. Util. Arrayist; import. Java. Util. linked list, import- Java. Util. 1:14; Poblic class 1:84 Erample ? Public Hatil roid main (String[7 arr 1) list (String) anaylist = new maylist < >(); arrayrist. add ("Apple"); arrayout add ("Banana"); arrayust add (" thery); System. out Println ("Arraylist"); for (string truit: array 1:84) system out println (thit?); Life & Aring) linued lift : now linued lift e > (); lined list, add ("Dog"). cincid List add [" Elephent"); winced Litt add (" Fox"); system out printer ("In Linked list"); for (String armal: lined 1:84); ypen out pritter (arimal);

anaylist remove (1); array tit. add (1, "Blue Berry"); typen out printer (In modified amogrith'); to (sting truit: away (14) bypen aut-printer (huit); would hist. remove ("Elephant")! Linued list. add (10, "cat"); System out println (" In modified trued lift")) tor (String Animal: Lincold 164) typen out pritter (arinal); output? Arrayisa. Apple, Barana, Cherry Linked list: Elephant, Dog, Fox modified array 1184! Apple, Bonana, therry modified Linuad 1:81: cat. Dog, trog