Name - B. Sai Nishida 209- 192210156 Subject - Programing in Java

Foculty - Dr. R. Hemovathy Assignment -

Aim+ To write Program on Instialize an Empty arrayhist (string) It dd elements ("Apple" "Banana", "Cherry", Dote to the Arrayhist -> specify an index to remove (index a) -> Remove the element at the specified inden from the Arrayhist - specify the element to search -> use indered method to find the position -> Print Position -> use a loop to stevate the Arrayhist -> Print element Code + Proport java util. Arraylist. Public class Array List Operations & Public Static Void main (string () args) Arrayhist 25thing > 1:st = new Arrayhist < > cs; 18st. add ("Apple"); list add ("Banana"); list add ("cherry"); system. out. Println (" In: tial hist: "+ 1:st); 1ist add ("Date"); int indextoRemove = Q;

of (IndentoRemove >= 0 & & Indento Remove 21ist sixon) list remove (inden Tokemore); System out println ("List after removing for (string element: list) } Systemout Printen (element). Output 1 Initial List: [Apple, Banana, Cherry, Date] List after removing element at inden 2: [Apple, Banana, Date] The position of "Date" is: 2 All elements in the list: Apple Banana Date 2) Hash Set operation Aim + write Program on toubset operation Pseudo code Declare new trashet with names Add names en names [John, Alice, Bob, Alice] -> create Roolean is- Precent +> declare & use function names. contran ("Bob")

Sprint Present Sinitialize for loop with string name: names Print "name" end loop send Program. code+ import java. util. Hash set; Public class tashoperations & Public static void (string CJ args) Hashset Zstring > names = new Hashset zscs. names. add ("John"); names - add (" Alice"); names. add ("Bob"); names add (" Alice"); boolean is present = names : contains ("Bob"); System. out. Println ("is Bob Present:"+ is Present"); for (string name; names) system out println (name). is Bob Present is Present John

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Priority Queue
Aims To wise Program on Priority queue
> Declare new Queue (string) with name employees
as Add elements [ Alice , John , 8 ve ]
=> Employee . Poll();
a initialize for each loop;
        String employee. Employees
    g Print ("Employee");
code +
 Emport java. util · Priority Queue;
   Public Class Priority
   Public Static Queue (String > 8mployees =
              new Priority Quene ();
   employeees add ("Alice");
   employees add ("John");
    Employees add (" Eve');
 System. out Printle C" Removed highest priority.
    employees. Poll();
for string Employee: Employees) }
  System, out Println (employees);
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Ainto write HashMap Program in java - Instalize new Hashmap (strong) students pinsert [John, Alice, Bob] with inden [101,102,10] + use for each loop - Print "ID:"+ entry getkey ()+", Name:"+ entry get value (1); Codes Java. util . Hash Map; import class trushmap Demo { Public Static Void main (String () avgs) { Public Heish Map & Integer, String > students = new Hash Mape>(); Students. put (101, John"); Students. Put (102," Alice"); Students- Put (103," Bob"), string name = student. get (102); System. out Println ("Student with IO 102"+ Students remove (103); for (+kushmap, 8 ntry ZIndeper, string entry > Students. entry()); System. out. Printeln ("ID:"+ entry get Keyes+

" mame: "+ entry. get value(1); OLPI Student with 50 102 : Alice 101 : John 102 : Alice