CSA0914 - pangramming in Town For Raspberry Pi T 12 100 Kumoz

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Seudocode
 PROGIRAM Assaylist operations
    Declare list As Armylist of string
    ADD "affile", "Barana", "Cherry", "dates" to list
     Point list
     SET remove index to 2
      Remove element to remove index from list
      Print remove element, list
     SET search element to data
      if sourch index is not - 1 then
       Point search element, search index
      else
       Print notifound"
      For each element in list
       Print element
      END FOR
Gestion;
    impost java util Arraylist;
     Public Class Amaylist openations (
        Public static void main Estring [] args] {
          Array list < stoing > list = new Array list < > ();
                 list add ( "apple");
                 listadd ("banana");
                 list add ("chenry");
                  list add ( "data");
          System out Printin ("Initial list: "+list);
           int remove index = 2;
            String removelements list remove (removinder);
            System out, printin ("remove element:"+ removed element);
            System. out. Printin ("list offer removal: "+113t);
            String search element = "data"
             If (search index \neq -1) {
```

```
System out Printin ("element found at:" + search index)
     System out Printin ("element not found");
     Ever Court Printin ("iterating through the list:");
     for (string element: list) (
          System out. Printin (element);
    3
 Output
        Initial list, (apple, banana, Cherry, dates)
         removed element: Cherry
          element (dates) found at 3
Pseudocode:
     PROCEDURE Hash set operations
```

Declare mame set as Hashset of strings Add John, Alice, bob to namesel Print namest SET newname to David" ADD necessare to name set Point newname + nameset SET removename to Basin ternove removename from namet Point remove name+ nameset SET Search name to "Allice" It nameset contains search name then Point "name is present in the set " Cla Print "name is not Present" END FOR ENO Program.

```
· Hadrald Williams Jospan
Riche Spatie must remove ( Maniel 1 . salle) !
    Musch Sed. Selving - transmissed now the street - . .
      name of add ("John")
       name set radd ( "Allie")
       Dameset add ("Gat")
       System out pairstin ("Truther 1 set 1, runnesel)
         Staing newname "covid"
         namesel add (neconarne)
         system as societin ("after adding not:"Anamound):
         Sting remove name - But"
          namesel temore (semere name)
           System out printer ("Alles removing; "I nomesal
           Sloing south home - "Alice"
            if (nume set contains (secuck name)) {
           Eystem all Paintin ( name is found );
          Beise (
            System out println ("name is not possent");
          zystem out pointin ("display all named:"),
```

Output ?

3

Initial Set (Bob, John, Allice)
Set after adding dovid (Bob, John, Allice, David)
Set after removing Bob: (John, Allice, David)
Name Alice is present in the Set.

Beudocode PROCEDURE Priority queue example Declare employee As class Dellare nume as string Declare Priority as Integer Constructor Employee (name as String, integer) Set this name Paiority. end constructor end class Declare Ry of Priority Queue of Employee. set P2 to new priority queue (E1, E2) => Expriority - E1 Priority. Add John, 3: Alice 1: Bob, 2, eve, 4 to Pg Point Po End for End PROGRAM Reagram: impost java-util Priority queues Class Employee { String name; int proxity; Public Employee (stringname, int Priority) & this name = name; this Priorty=Priority; 3 3 Public class Provity queue Example& Public static wid main (String (2009s) E Priority queue < Employee > pg= new priority queue> Prad (new Employee (John, 3)); 19, add (new Employee (Alice,i)), Pq. add (new Employee (Bob,2));

Pg. add (new Employes ("Eve", 4)); System out Pointin ("Initial Primity" + Pa); Employee highest Priority Employee - Pa pouls. System out printin ("removed employer" thighest friendy); System.out. Println ("Priority queue after hispest Franky"), output: Displaying Priority Queue Eve - Priotity:4 John-Polority: 3 Bob- Priority: 2 Allie-Priority: 1 Pseudocode: PROCEDURE Hashmap example Dellare Studentmap as husbamap of integers to string Add lo1, John; we Alice; 103, Bob; loy, Eve Print Studentmap

Lare Student map as hushmap of integer to sto
Add lo1, John; wa Alice; 103, Bob; lou; Eve
Print Student map
Set searchid to 103
If student map Contain key searchid then
Print searchid total map
Else
Print "not found"
Print Student map
For each id in Student map key set
Print id " Student map set (1d)
END FOR
END PROGRAM

Passparn

```
import Burg (11.) Hashing
Public Class Hushmap exampled
     Rubbi State Void main ( String " 10-98) }
         Hashmap . Integer, string schudertimp new trushment ...
          Student map Put (101; John)
          Shadent map Pat (los, "Auc.");
           Studenting Put ( los, "Rob");
           Studenting p. Pak (lov, "Que");
           System out println ("Initial Hashmap"s studenting);
           int seardid 2603;
           if (Hudenb map contains key (season id)) {
                System-out Printin ("name is present");
           3 eve &
              system out bringin ("name is not present");
            system out printin ("Hash map after removing I student map);
       3
```

output:

Initial Hashmap, {101= John, loe=Alice, 103=Bob, lou=Eve} Student ID 103 Corresponds to Bob displaying all names:

ID: 60, Name: John ID: 63, Name: Bob