Mane: C.KAFroz 1CSA0985 Rgno: 192311108 Collections of Java as follows: Array (18t: - An Analysis is restrable array implementa-Proport Java util *: Class Awaytisten & Public Static Void main (String [] args) { Amraylist 2 String > 19st New ArrayList <>(); Lest-add (Apple"); List-add ("Banana"); List-add ("Cherry"); System out print nurst); Output: [Apple, Bananascherry] Lanked list: A Linkedlist is a doubly-Linked list implementation of 19st enterface Propreum? Import Java util *: Class Linked Listen ? Public Static Void man (String args []) { Linkedlist 28thing > list New Linked List2 > () List. add (Apple "); List-add ("Cherry"); Output? [Apple, Chang]

```
3. Hashset :-
         Is a set emplementation that used as
    hashtable for strong.
    Code:
       import Java. util *;
       Class Hashen &
         Public states void main (string args (J)?
           Set add ("Apple");
           Set. add ("Icecream")?
          system out print (set);
  Output:-
         [ Apple : Idecream ]
  Tree set
4.1
    A Treeset is a set implementation that uses a
  tree for storage.
  Code :-
    Import Java-util *;
  Class Treeseten &
    Public static void main (String args [7] {
     Treeset 28 trong > set = New Tree set < > () =
            Set add ("Apple");
            Set-add ("Banana").
            Set-add (" cherry");
    System out pront n (set);
```

```
Output:
                    [Apple, Banana, Cherry]
          Hashmap: - a map emplementation that uses a
           hash import Java util *;
           Class Hashmap x &
                 Public Static Void main (String avg Es) {
                 map = put (" Apple 31);
                 map. put ("Banana", 2).
                  map. put ("cherry", 8);
              System-out-println (map);
         notpot ?
              2 Apple = 4; Banana = 2, Cherry=3 &
Put:
APPI
         Tree Map:
                  TreeMap Ps a map Proprementation that
edles
         Uses a tree for Storage
LAPA
        Code :-
            import Java obil *;
          Class Treemapen &
Ve
             Public 8 tatec void main (String args (7)) {
tec
           Tree Map 28 tring, Integer map - new Tree mape > ();
tat
                       map. put ("Apple", 1);
187
                       mapo put ("Banana", 2).
                       map. put ("Cherry", 3);
                      System out print in (map);
            4
```

outputs-& Apple 1, Banouna = 2, cherry=33 f. dinked Hashset A linked hash set is a set implementation that uses a hashtable and Linked list for Storage. Coole? Proport Java util x10 Hash Linked Hashselen & Public static word main (8 bring args) ? Lined Hosh set 28 bring> set = new linked Hoshset Set- add ("Apple"); Set add (" Banana"); Set-add ("Cherry"). System out prextiniset); Output?-[Apple, Banana, Cherry] Priority Overe; -A priority Queue is a Queue implementation that orders elements Based on their natural ordering or a custom comparations. Cocles-Emport Java-util x? Class priority queusen &

Poblic Stable word main (starnge) ang (1) } Promity Queue 2 String, Queue new promity quelle Quewe add ("Apple"); queue add ("Barara"); queue add ("cherry"); System out print in (queue): Eq 2 Outputs-[Apple, Barana, cherry] Array Dequeue: -An Array Dequeue es adeque implementation that users an Amay for Storage Code? Import java util *; Class Array Dequen & Public states void moin (string orgs (J) { Array Deque (850 ng > de que = New Array Deque deque · add ca Apprem); deque, add (4 Banan qn); System out printlin (dequeue); Output? Apple, Banana]. LIFU Emplementation of the List Enterface. Stack:

1 to 82 amport Java utal *? class Stacker & Public States void main (String orgs 1)? Stack estring> Stack "new Stack => (); · Stack-push ("Apple"); Stack . Push ("Banana") ? Stack. push ("cherry") system out print en (Stack). 2 Output:-[Apple) Banana cherry] Vector: A vector is a synchronized implementation of the List inderface Code: Proport Java otal Are, Class vectoren & Public statiquoid main (string args (J) ? Vector 2 string > vector = new vector 2 = (); vector add ("Apple"); vector add ("costard applem", System out println (vector), 2 Output? Apple, custored Apple)

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