ASSIGNMENT-3

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JAVA Collections OF Java as Follows is resizable array 1. Arraylist: An Array list import Java util; class Array listen { Public static void main (string [] args) } Amaylist estring - list new array list-23 11; List radd ("Apple"); list . add ("Banana"); list add ("cherry"); System. Out. printin (ust); 3 3. Output [Apple . Barana, Cherry] 2. Linkedlist-:-A Linkedlist- is a doubly. Linked list implementation of list interface. Program import- Tora util; class unred list in f Public static Void main (strong angs[]) } Unked list estoing> list -mew Untedlist > (); List. add ("Apple"); List. add ("cherry"); Out-put

[Apple , cherry]

```
8. Hashset :-
                                                       . hashlable
                is a implementation that
     Hashset
                                               uses
     For storage.
   Code :-
        import · Java. util;
         Class Hashen &
                · Static Void main (string args[7)}
        Public
            Hashsel-2 string> sel-= new Hash sel-c>();
                set add ("Apple");
                set-add ("Icecream");
                System. out. printin (set);
        Output-
           Capple, Icecream]
4.
   Tree sel-
   A Tree set is a Sel- implementation that uses
  tree · For storage.
  Code:_
       import Java. cintil/
      Class Treeseten &
        Public stat-Pe void main (string args [7)}
        Treeset- 2 string > set = new Treeset-2>();
              set. add ("Apple");
              set-add ("Barara");
             set- add ("cherry");
             System. out . printin (set);
   Output:-
        [Apple, Baranos, cherry]
```

```
Hashmap:
      map implementation that
                                     uses a hash
                                                    table
                                                           For
    Storage.
      import Java until;
       Class hashmap en ?
       Public static · Void main (strong angs []) {
    Hashmap & string ; Integer & map, new hash map 2, ();
        map. put ("Apple 1);
        map. put ("Baran a", 5))
        map. put ( " cherry ", 3);
        System. out- print-in (map);
  Output: -
     & Apple = 1, Banana = D, Cherry = 3 }
  TreeMap
6.
    A Tree Map is a map implementation that uses a tree
    For storage.
   Code :-
        import Java util;
      Class Treemaper &
      Rublic statec void main (string args [7) }
      Tree map Litting, integer map = new - Tree map ();
             map. put-1"Apple", 1);
             map. pul- ("Barana", 2);
             map - pul- (" cherry ",3);
            system.out.print-in(map);
   SApple=1, Banana=2, Cherry=39.
```

```
日.
    Linked hashsel-
    A Linkedhashset is a set implementation that uses
    a hashtable and Imlehast
                                  · For storage.
    Code: -
      import · Tava until;
        class linked hashset &
                static void main (string args []) }
       linked hashset estrings set = new linked hash sel-cs ();
            set add ("Apple");
            set add ("Banana");
             sel-.add ("cherry");
            System.out.printen (set);
         Output: -
         [Apple, Banana, Cherry]
8.
     priority Gueur: -
         priority Queue is a Queue implementation that orders
     elements Based on their/ natural ordering or a Custom.
     Comparator
     Code :-
        import. Tava . Ut-il;
           Class priority Queue &
            Public state void main (string 17 args) ¿
         Priority Queuezstrings Queue = new priority Queuezs();
              Queue. add ("Apple");
              Queue. add ( Barana");
              Queue. add ("cherry");
              eystem. out. printin-(queue);
   Out-put
        LApple, Banana, Cherry]
```

```
Dequeue, -
 Array
    Array dequeue is a deque.
                                   implementation that uses
      array For storage.
Code :-
    import java. Util;
    Class Array Deque. {
      Publice static Void main (string args ET);
      Array Deque & string > deque = new array deque <>();
        deque .add. ("Apple");
       degue .add ("Banana");
         eystem.out.printin (dequeue);
        Out pul-
        [Apple, Banana].
    Stack
10.
                                of the list interface.
      UFO implementation
      import- java. util;
       class stack. {
     Public static void main (string args [7) }
     Stack & strings Stack = new · Stack LS ();
        Stack · push ("Apple");
        Stack puch ("Banano");
        Stack . push ("cherry");
     system. out . prontin (stack);
    4
   Output :-
       [Apple, Banana, Cherry]
```

```
11. Vector

A Vector is a Synchronized implementation of

List interface.

Code:-

import Java. Util;

Class Vector {

Rublic static Void main (string args [7]) {

Vector & string > Vector = new Vector (>();

Vector add ("Apple");

Vector add(" lustard Apple");

Syskm. out. printle (Vector);

g

Output

[Apple, Custard apple]
```