ASSIGNMENT - 3 () Collection in java A cothection represents a single unit of objects List ii) Queue 111 Set Annaylist Hashset priorily queue LinkedList Linked Hashset Degne Softed Set vector Astray Quene 6 The Set Stack AmayList import java . Wil. ". class Mais of public static void main (String[) args) of Aronay List < Strings List = new Aronay List <> 1) 9. List. add ('Aavi") List - add (Vyay") List. add (" Ajay") Iterator its = list . "iterator(): uhile (itr. has Next ()) of System. Out, printer (its. resetc). Output! Ravi Vyay A jay Linked List import java, util. 1 class Maind public static void main (Slowing [] args) of Linked List (String > S = new Linked List <> () S. add (Ajay"); 8. add ("kavi") S. add ("Vigay");

```
Iterator < string > itr = 3. iterator (,
       while (ity. has Next 1))
            System. out. printer ( etr. Next())
iii)
      Vector
     imposed java. util. *;
     llass Malos
        Dublu Static void Main ( string () args);
vector ( string > v = new vector < > ()
        V. add ("1")
         V- add ("2")
        v. add ("3")
        Iterator & string 7 iterator ().
        While City, has weat(1) of
             System. out. pounten (itr. next())
     Output
    Stack
   imposit java, util . ;
   class Main of
      public static void main (String & Jargs)
      Stack (storing > S = new Stack < 7();
      S. push ("1")
      S. push (" 2"),
      S. push ("3").
     S. push ("4").
     Stack . pop ()
    Iterator < string 7 ctr = s.t. Herator ();
     while ('itr. has next ()) of

System. Out. pountles ('itr. next (1)')
```

```
Output:
priority Queue:
imposet java. util. *;
    public Statie vad mair (String [] args)
class Mais os
    priority Queue 2 Stowng 7 queue =
                new-priority queue <700.
    quelle. add ( " (11)
    queue add ( 2'1)
    quere. add ("3")
    System. Out. printle ("need" + greve. element ())
    System. out pointle ("need ' topiene. peeks);
    System. Out. println(" iterating elements:"):
    Horator 1= queue. Kerators
    while (1. has preset (1) of
        System - grat printle (1. nexter);
 output
      need : Amu
      need: Amil
      Iterating elements
   3.
 insport joura. util. *
 Class Main of
     public Stuire void main ( stoling L7 aveg
   Deque ( string > d = new Array Deque < st
  a. add (,4,11)
  d. add ("2"):
 d. add("3")7
```

```
for (String etg deque) of
        System .out . paintln (str);
   Output !
vii) treeset
    inport sava outil. *
       public static void mais (String [) args) of
    class Main of
         True set Lstring > S = new Trueset < >();
          s. add ("1");
s. add ("2");
          S. add ( " 3").
         Iterator < string zi = s. iterator ()
         while Cl. has next (1) of
               System. out. println (1. nextco);
      4 9 9
     oulput
   hash set
   imposit java, Wil. *.
   class mains
      publie statie void main (Strung [] args) d
      Hashset < string > set = new Hash set < 7();
       Set add ("Pavi"
       Set. add C"Ray"1.
       set. add ("gopi").
      Iterator ( String 7 ? = set Cherator ().
       unile Ci. hasnest ()) of
             System. out printin(1. neset1);
```

Linked Hashsel import java wil. class Main of public stalre void main (string 17 args) h Cinked Hashser < s tring > set = new Linked trash set Set - add (", ") Set. add ("2"). Set - add ("3"). Set fadd ("11 Iterator & string >1 = 8cd. Herator () while (1. has next()) of System. out. prunten Cinesut(); Sorted set. X) import - java . Wil . . Uan Main of public stalice void mais (string [] args Sorted set (string) 8 = new traset < strung>(s - add (" one "). s. add (" two"). 5. add ("therer). System, out, printly co set afterinsering + + s. remove ('two") System. out printle (" removed + s);