VECTOR :

import java.util.Vector;

public class task1 {

public static void main(String args[])

{

Vector v = new Vector();

int i;

for(i=0;i<10;i++)

{

v.addElement(i);

}

System.***out***.println(v);

System.***out***.println(v.capacity());

v.addElement("hari"); // support hetrogeneous

System.***out***.println(v);

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

10

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, hari]

STACK :

package day7;

import java.util.Stack;

public class task2 {

public static void main(String args[])

{

Stack s = new Stack();

for(int i=0;i<10;i++)

{

s.push(i); // offset --> starting from 1 at top of the stack

} // index --> starting from zero at bottom

s.pop();

System.***out***.println(s);

System.***out***.println(s.peek());

System.***out***.println(s.search(s));

}

}

[0, 1, 2, 3, 4, 5, 6, 7, 8]

8

-1

CURSOR :

🡪 Enumerator 🡪 Iterator 🡪List iterator

Enumerator :

import java.util.Enumeration;

import java.util.Vector;

public class task3 {

public static void main(String args[])

{

Vector v = new Vector();

for(int i=0;i<10;i++)

{

v.addElement(i);

}

Enumeration e = v.elements();

while(e.hasMoreElements())

{

Integer a = (Integer)e.nextElement();

System.***out***.print(a+" ");

}

0 1 2 3 4 5 6 7 8 9

package day7;

import java.util.Enumeration;

import java.util.Vector;

public class task3 {

public static void main(String args[])

{

Vector v = new Vector();

for(int i=0;i<10;i++)

{

v.addElement(i);

}

Enumeration e = v.elements();

while(e.hasMoreElements())

{

int a = (Integer)e.nextElement();

if(a%2==0)

{

System.***out***.print(a+" ");

}}

}

}

0 2 4 6 8

INTERATOR :

package day7;

import java.util.ArrayList;

import java.util.Iterator;

public class task4 {

public static void main(String args[])

{

ArrayList l = new ArrayList();

//Iterator it = new Interator();

for(int i=0;i<10;i++)

{

l.add(i);

}

Iterator it = l.iterator(); // iterate through l

while(it.hasNext())

{

int a = (Integer)it.next();

if(a%2==0)

{

System.***out***.println(a);

}

else {

//it.remove();

}

}

System.***out***.print(l + " ");

}

}

0

2

4

6

8

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

LIST ITERATOR

package day7;

import java.util.ArrayList;

import java.util.Iterator;

import java.util.ListIterator;

;

public class task5 {

public static void main(String args[])

{

ArrayList l = new ArrayList();

l.add("hari");

l.add("haran");

l.add("welcome");

l.add("myClass");

ListIterator li = l.listIterator(); // listiterator iterate through li

System.***out***.println(l);

while(li.hasNext())

{

String a = (String)li.next();

if(a.equals("haran"))

{

li.remove();

}

//System.out.println(a);

if(a.equals("welcome"))

{

li.set("TO All OF YOU");

}

//System.out.println(a);

if(a.equals("myClass"

))

{

li.add("listen");

}

}

System.***out***.println(l);

[hari, haran, welcome, myClass]

[hari, TO All OF YOU, myClass, listen]

Previous:

while(li.hasPrevious())

{

String a = (String)li.previous();

System.***out***.println(a);

}

listenmyClassTO All OF YOUhari

PRIORITY QUEUE :

* may be order change except first index .

package day7;

import java.util.Comparator;

import java.util.PriorityQueue;

class MyComparator implements Comparator

{

public int compare(Object obj1,Object obj2)

{

String s1 =(String) obj1;

String s2 =(String) obj2;

return -s1.compareTo(s2); // desending order

}

}

public class task7 {

public static void main(String args[])

{

PriorityQueue q = new PriorityQueue(new MyComparator());

q.offer("hi");

q.offer("hello");

q.offer("queue");

q.offer("list");

System.***out***.println(q);

System.***out***.println(q.poll());

[queue, list, hi, hello]

queue

only the first element will pick .