**LinkedList**

package pack1;

import java.util.Iterator;

import java.util.LinkedList;

class Student

{

private String name;

Student(String n){ name = n; }

public String getName( ) { return name; }

public String toString( ) { return "Name :"+getName( ); }

}

public class LinkedListDemo {

public static void display(LinkedList<Student> obj)

{

for(Student st : obj)

System.out.println(st);

}

public static void main(String[] args) {

LinkedList<Student> sobj = new LinkedList<Student>( );

sobj.add(new Student("rahul"));

sobj.add(new Student("rohit"));

sobj.add(new Student("ramesh"));

sobj.add(new Student("ramakrishna"));

sobj.add(new Student("ravi"));

display(sobj);

System.out.println("Deletion and Insertion at Beginning");

sobj.removeFirst();

sobj.addFirst(new Student("abi"));

display(sobj);

System.out.println("Deletion and Insertion at End");

sobj.removeLast();

sobj.addLast(new Student("ajith"));

display(sobj);

System.out.println("Deletion and Insertion in Middle");

sobj.remove(2);

sobj.add(2, new Student("alex"));

display(sobj);

System.out.println("First Element :"+sobj.getFirst());

System.out.println("Last Element :"+sobj.getLast( ));

System.out.println("Middle Element :"+sobj.get(2));

Iterator<Student> st = sobj.descendingIterator();

while(st.hasNext( ))

System.out.println(st.next( ));

}

}