**package** org.singlelinkedlist;

**import** java.io.\*;

**public** **class** singlelinkedlist

{

Node head;

**static** **class** Node

{

**int** data;

Node next;

Node(**int** d)

{

data = d;

next = **null**;

}

}

**public** **static** singlelinkedlist insert(singlelinkedlist list, **int** data)

{

Node new\_node = **new** Node(data);

new\_node.next = **null**;

**if** (list.head == **null**)

{

list.head = new\_node;

}

**else**

{

Node last = list.head;

**while** (last.next != **null**)

{

last = last.next;

}

last.next = new\_node;

}

**return** list;

}

**public** **static** **void** printList(singlelinkedlist list)

{

Node currNode = list.head;

System.***out***.print("LinkedList: ");

**while** (currNode != **null**)

{

System.***out***.print(currNode.data + " ");

currNode = currNode.next;

}

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

}

**public** **static** singlelinkedlist deleteByKey(singlelinkedlist list, **int** key)

{

Node currNode = list.head, prev = **null**;

*If* (currNode != **null** && currNode.data == key);

{

list.head = currNode.next;

System.***out***.println(key + " found and deleted");

**return** list;

}

}

**private** **static** **void** If(**boolean** b) {

}

**public** **static** **void** main(String[] args)

{

singlelinkedlist list = **new** singlelinkedlist();

list = *insert*(list, 1);

list = *insert*(list, 2);

list = *insert*(list, 3);

list = *insert*(list, 4);

list = *insert*(list, 5);

list = *insert*(list, 6);

list = *insert*(list, 7);

list = *insert*(list, 8);

*printList*(list);

*deleteByKey*(list, 1);

*printList*(list);

*deleteByKey*(list, 4);

*printList*(list);

*deleteByKey*(list, 10);

*printList*(list);

}

}