public class Hello {

Node head = null;

public boolean isEmpty() {

return head == null;

}

public void insertAtBeginningName(String name) {

Node new\_node = new Node(name);

if (isEmpty()) {

head = new\_node;

} else {

new\_node.next = head;

head.prev = new\_node;

head = new\_node;

}

}

public void insertAtBeginningNode(Node node) {

if (isEmpty()) {

head = node;

} else {

node.next = head;

head.prev = node;

head = node;

}

}

public void insertAtEnd(String name) {

Node new\_node = new Node(name);

if (isEmpty()) {

head = new\_node;

} else {

Node cur = head;

while (cur.next != null) {

cur = cur.next;

}

cur.next = new\_node;

new\_node.prev = cur;

}

}

public void insertAtEnd(Node node)

{

if(isEmpty())

{

head=node;

}

else

{

Node cur=head;

while (cur.next!=null)

{

cur=cur.next;

}

cur.next=node;

node.prev=cur;

}

}

public void insertAfterName(String name ,Node node)

{

Node new\_node=new Node(name);

if(isEmpty())

{

head=new\_node;

new\_node.next=node;

node.prev=new\_node;

}

else

{

Node cur=head;

while(cur.name!=name)

{

cur=cur.next;

}

node.next=cur.next;

cur.next=node;

node.prev=cur;

node.next.prev=node;

}

}

public void insertBeforeName(String name, Node node)

{

Node new\_node=new Node(name);

if(isEmpty())

{

head=new\_node;

new\_node.next=node;

node.prev=new\_node;

}

else

{

}

}

public void makeCircular()

{

}

public void printAll() {

if (head == null) {

System.*out*.println("Linked list Does not exist");

} else {

Node temp = head;

while (temp != null) {

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

temp = temp.next;

}

}

}

public static void main(String args[]) {

Hello list1 = new Hello();

list1.insertAtBeginningName("Ghulam");

Node new\_node=new Node("Mustafa");

list1.insertAtBeginningNode(new\_node);

list1.insertAtEnd("Kobhar");

list1.printAll();

}

}