**INSERT CONTACT:**

Start

Prompt user for contact name, phone number

Get contactName, phoneNumber

InsertContact(head, name, number)

IF(head == NULL) {

Head = newNode

}

current = head

WHILE(current ->next != NULL) {

current = current->next

current ->next = newNode

}

End

**SEARCH CONTACT:**

Start

Prompt user for contact name

Get contactName

Found = 0

FOR(i = 0; I < array.lemgth; i++)

IF(contactList[i].name == contactName)

DISPLAY contactList[i].name AND contactList[i].number

Found = 1

Break

ENDIF

ENDFOR

IF(found == 0)

DISPLAY”Contact not found”

ENDIF

End

**DISPLAY ALL CONTACTS:**

Start

IF(array.length == 0)

DISPLAY”No contacts found”

ELSE

FOR(I = 0; I < array.length; i++)

PRINT contactList[i].name AND contactList[i].number

ENDFOR

ENDIF

End

**UPDATE CONTACT:**

Start

updateContact(head, name, newPhone) {

current = searchContact(head, name)

IF(current != NULL) {

current ->phone = newPhone

current ->name = newname

} ElSE

DISPLAY “Contact not found”

}

End

**DELETE CONTACT:**

Start

deleteContact(head, name):

if head == NULL:

print "Contact list is empty"

return

head

if head.name == name:

head = head.next

return

previous = NULL

current = head

while current != NULL and current.name != name:

previous = current

current = current.next

if current != NULL:

previous.next = current.next

return

else:

print "Contact not found"

End

**SORTING CONTACT:**

Start

sortContacts(head) {

IF(head == NUL) {

return

swapped = true

}

WHILE swapped(swapped = false) {

Current = head

}

WHILE(current ->next != NULL) {

IF(current.name -> current ->next.name

tempName = current ->next.name

current ->next.name = tempName

tempPhone = current ->phone

current ->phone = current ->next.phone

current ->next.phone = tempPhone

swapped = true

current = current ->next

}

}

End