Name : Manasi Rathod

Roll No : 23552

* **CODE**

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#!/bin/bash

# File to store the address book data

address\_book\_file="address\_book.txt"

# Function to create a new address book

create\_address\_book() {

touch "$address\_book\_file"

echo "Address book created."

}

# Function to view the address book

view\_address\_book() {

if [ ! -f "$address\_book\_file" ]; then

echo "Address book is empty."

else

echo "Address book:"

cat "$address\_book\_file"

fi

}

# Function to insert a record into the address book

insert\_record() {

echo "Enter name:"

read name

echo "Enter phone number:"

read phone

echo "Enter email:"

read email

echo "Name: $name, Phone: $phone, Email: $email" >> "$address\_book\_file"

echo "Record inserted."

}

# Function to delete a record from the address book

delete\_record() {

echo "Enter name to delete:"

read name

if grep -q "^Name: $name" "$address\_book\_file"; then

sed -i "/^Name: $name/d" "$address\_book\_file"

echo "Record deleted."

else

echo "Record not found."

fi

}

# Function to modify a record in the address book

modify\_record() {

echo "Enter name to modify:"

read name

if grep -q "^Name: $name" "$address\_book\_file"; then

echo "Enter new phone number:"

read phone

echo "Enter new email:"

read email

sed -i "/^Name: $name/ {N; s/Phone: ./Phone: $phone/; s/Email: ./Email: $email/;}" "$address\_book\_file"

echo "Record modified."

else

echo "Record not found."

fi

}

# Main program loop

while true; do

echo "Address Book"

echo "a) Create address book"

echo "b) View address book"

echo "c) Insert a record"

echo "d) Delete a record"

echo "e) Modify a record"

echo "f) Exit"

echo "Enter your choice:"

read choice

case "$choice" in

a)

create\_address\_book

;;

b)

view\_address\_book

;;

c)

insert\_record

;;

d)

delete\_record

;;

e)

modify\_record

;;

f)

echo "Exiting..."

exit 0

;;

\*)

echo "Invalid choice."

;;

esac

echo

done

* **OUTPUT**

