          import csv

def main():

   print("Welcome to the Contact Manager App")

   print('-'\*40)

   while True:

      print()

      print("Push the following options to perform the corresponding action:")

      print("1 - Create new contact file")

      print("2 - Add new contact")

      print("3 - View all contacts")

      print("4 - Modify an existing contact")

      print("5 - Save and exit")

      choice = int(input("Enter your selection: "))

      print('-'\*40)

      if choice == 1:

         new\_contact\_file()

      elif choice == 2:

         add\_contact()

      elif choice == 3:

         view\_contact()

      elif choice == 4:

         edit\_contact()

      elif choice == 5:

         break

      else:

         print("Invalid option. Please try again.")

def new\_contact\_file():

    with open("contacts.csv","w", newline='') as f:

      writer = csv.writer(f)

      writer.writerow(['Name', 'Phone', 'Email'])

      print("Contact file created successfully")

def add\_contact():

    name = input("Enter the contact name: ")

    phone = input("Enter contact phone number: ")

    email = input("Enter contact email address: ")

    with open("contacts.csv", 'a', newline="") as f:

        writer = csv.writer(f)

        writer.writerow([name,phone,email])

        print("Contact added successfully!")

def view\_contact():

   print("Contacts Information:")

   print('-'\*40)

   with open("contacts.csv", "r") as f:

      reader = csv.reader(f)

      next(reader)

      print(f"Name\t\tPhones\t\tEmail")

      for row in reader:

         print(f"{row[0]}\t{row[1]}\t{row[2]}")

def edit\_contact():

    contacts = []

    with open("contacts.csv","r") as f:

       reader = csv.reader(f)

       for row in reader:

          contacts.append(row)

    name\_to\_modify = input("\nEnter the name of the contact you want to modify: ")

    for contact in contacts:

       if contact[0] == name\_to\_modify:

          print(f"\nCurrent details: Name: {contact[0]}, Phone: {contact[1]}, Email: {contact[2]}")

          new\_phone = input("Enter new phone number (leave blank to keep current):")

          new\_email = input("Enter new email address (leave blank to keep current): ")

          if new\_phone:

             contact[1] = new\_phone

          if new\_email:

             contact[2] = new\_email

             print("\nContact updated successfully!")

             break

    with open("contacts.csv", "w", newline='') as f:

       writer = csv.writer(f)

       for contact in contacts:

          writer.writerow(contact)

def codedby():

   print()

   print('-'\*40)

   print("completed by Andrew Jones")

if \_\_name\_\_ == "\_\_main\_\_":

   main()

   codedby()

