

# **PYTHON**

# **Assignment**

# Contact Book Project

## **Objective:**

Create a simple command-line Contact Book application in Python that allows users to add, delete, search, and view contacts.

# Step-by-Step Instructions:

#### 1. Set Up Your Environment:

- o Make sure you have Python installed on your computer.
- o Choose an IDE or text editor (like VS Code, PyCharm, or Sublime Text) to write your Python code.

# 2. Create a New Python File:

- o Open your text editor or IDE.
- o Create a new file and name it contact book.py.

## 3. Write the display menu() Function:

- o This function will display the main menu of the Contact Book. It shows options like adding, deleting, searching, viewing all contacts, and exiting the program.
- o Use the print () function to display the menu.

#### 4. Write the add contact (contact book) Function:

- o This function will allow the user to add a new contact to the contact book.
- o The contact book is a dictionary where the name is the key, and the phone number is the value.
- o Use input () to get the contact name and phone number from the user.

#### 5. Write the delete contact (contact book) Function:

- o This function will allow the user to delete a contact by name.
- o Use input () to get the name of the contact to delete.

## 6. Write the search contact (contact book) Function:

- o This function will allow the user to search for a contact by name.
- o If the contact is found, it will display the name and phone number.

# 7. Write the view\_all\_contacts (contact\_book) Function:

- o This function will display all contacts stored in the contact book.
- o If there are no contacts, it will inform the user.

#### 8. Write the main () Function:

- o This is the main function where the program will start executing.
- o Create an empty dictionary called contact book to store contacts.
- o Use a while loop to continuously display the menu and prompt the user to choose an option.



- o Call the appropriate function based on the user's choice.
- Use a conditional statement to exit the loop and end the program if the user chooses to exit.

## 9. Run the Program:

- o Save your file.
- Run the program by executing python contact\_book.py in your terminal or command prompt.
- Test all the features of your Contact Book by adding, deleting, searching, and viewing contacts.

# **Model Output:**

```
---- Contact Book Menu -----

    Add Contact

Delete Contact
3. Search Contact
4. View All Contacts
5. Exit
Choose an option (1-5): 1
Enter contact name: John Doe
Enter contact phone number: 123-456-7890
Contact 'John Doe' added successfully.
---- Contact Book Menu -----

    Add Contact

2. Delete Contact
3. Search Contact
4. View All Contacts
5. Exit
Choose an option (1-5): 4
--- All Contacts ---
Name: John Doe, Phone: 123-456-7890
---- Contact Book Menu -----

    Add Contact

2. Delete Contact
3. Search Contact
4. View All Contacts
5. Exit
Choose an option (1-5): 3
Enter contact name to search: John Doe
```

```
□ www.achieversit.com □ info@achieversit.com □ +91 8151000080 / 8151000090 

HeadOffice: □ #1, 4th Main Rd, Extension, Ayyappa Layout, Chandra Layout, Marathahalli, Bengaluru, Karnataka 560037
```

Branches: □ Bangalore · BTM | Marathahalli, Hyderabad · KPHB Branch 1 | Branch 2 "

Education is the most powerful weapon which you can use to change the world "



```
Name: John Doe, Phone: 123-456-7890

    Add Contact

Delete Contact
3. Search Contact
4. View All Contacts
5. Exit
Choose an option (1-5): 2
Enter contact name to delete: John Doe
Contact 'John Doe' deleted successfully.
---- Contact Book Menu -----

    Add Contact

2. Delete Contact
3. Search Contact
4. View All Contacts
5. Exit
Choose an option (1-5): 4
No contacts found.

    Add Contact

2. Delete Contact
3. Search Contact
4. View All Contacts
5. Exit
Choose an option (1-5): 5
Exiting Contact Book. Goodbye!
```