Aim:

Write a Python program that functions as a simple phone book manager with a menu-driven interface. The program prompts the user to choose from the following options:

1. Add Contact
2. Remove Contact
3. Display
4. Quit

The program uses a dictionary to store contact information, where the contact name serves as the key and the associated phone number as the value. The user can add a contact, remove a contact, display the current contacts, or exit the program.

Source Code:

phonenumber_db.py

```python
# write your code...
phone_book={}
while True:
    print("1. Add Contact")
    print("2. Remove Contact")
    print("3. Display")
    print("4. Quit")
    choice= input("Enter choice (1-4): ")
    if choice=='1':
        name=input("Name: ")
        number = input("Phone number: ")
        phone_book[name]=number
    elif choice =='2':
        name= input("Name: ")
        if name in phone_book:
            del phone_book[name]
        else:
            print("Not found")
    elif choice =='3':
        if phone_book:
            print(phone_book)
        else:
            print("{}")
    elif choice =='4':
        break
    else:
        print("Invalid")
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
1. Add Contact 3
2. Remove Contact 3

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3. Display 3
4. Quit 3
Enter choice (1-4):  3
{} 1
1. Add Contact 1
2. Remove Contact 1
3. Display 1
4. Quit 1
Enter choice (1-4):  1
Name:  Aman
Phone number:  8900004500
1. Add Contact 1
2. Remove Contact 1
3. Display 1
4. Quit 1
Enter choice (1-4):  1
Name:  Arjun
Phone number:  966969669
1. Add Contact 3
2. Remove Contact 3
3. Display 3
4. Quit 3
Enter choice (1-4):  3
{'Aman': '8900004500', 'Arjun': '966969669'} 2
1. Add Contact 2
2. Remove Contact 2
3. Display 2
4. Quit 2
Enter choice (1-4):  2
Name:  Aanya
Not found 2
1. Add Contact 2
2. Remove Contact 2
3. Display 2
4. Quit 2
Enter choice (1-4):  2
Name:  Arjun
1. Add Contact 3
2. Remove Contact 3
3. Display 3
4. Quit 3
Enter choice (1-4):  3
{'Aman': '8900004500'} 7
1. Add Contact 7
2. Remove Contact 7
3. Display 7
4. Quit 7
Enter choice (1-4):  7
Invalid 4
1. Add Contact 4
2. Remove Contact 4
3. Display 4
```

```
4. Quit 4
Enter choice (1-4):  4
```