

TASK-3

Create a Contact Management System that stores names and phone numbers, with functions to add, search, and display contacts.

Code:

```
contacts = {}

def add_contact():
    name = input("Enter contact name: ")
    phone = input("Enter phone number: ")
    contacts[name] = phone
    print(f"Contact '{name}' added successfully!\n")

def search_contact():
    name = input("Enter name to search: ")
    if name in contacts:
        print(f"Contact found: {name} - {contacts[name]}\n")
    else:
        print("Contact not found!\n")

def display_contacts():
    if contacts:
        print("\n--- Contact List ---")
        for name, phone in contacts.items():
            print(f'{name} : {phone}')
```

```
        print()
    else:
        print("No contacts available!\n")

def main():
    while True:
        print("==== Contact Management System =====")
        print("1. Add Contact")
        print("2. Search Contact")
        print("3. Display All Contacts")
        print("4. Exit")

        choice = input("Enter your choice (1-4): ")
        if choice == "1":
            add_contact()
        elif choice == "2":
            search_contact()
        elif choice == "3":
            display_contacts()
        elif choice == "4":
            print("Exiting Contact Management System. Goodbye!")
            break
        else:
            print("Invalid choice! Please try again.\n")

main()
```

OUTPUT:

Python Tutor: Visualize Code and Get AI Help for [Python](#), [JavaScript](#), [C](#), [C++](#), and [Java](#)

Python 3.11
[known limitations](#)

```
5 def add_contact():
6     name = input("Enter contact name: ")
7     phone = input("Enter phone number: ")
8     contacts[name] = phone
9     print("Contact added successfully!\n")
10
11 def search_contact():
12     n = input("Enter name to search: ")
13     if n in contacts:
14         print("Found:", contacts[n])
15     else:
16         print("Not Found!\n")
17
18 def display_contacts():
19     if contacts:
20         print("\n--- Contact List ---")
21         for name, phone in contacts.items():
22             print(name, ":", phone)
23         print()
24     else:
25         print("No contacts available!\n")
```

[Edit this code](#)

Print output (drag lower right corner to resize)

```
1. Add Contact
2. Search Contact
3. Display All Contacts
4. Exit
Enter choice: 1
Enter contact name: 1
Enter phone number: 7708543501
Contact added successfully!

1. Add Contact
2. Search Contact
3. Display All Contacts
4. Exit
Enter choice: 2
Enter name to search: vignesh
Not Found!

1. Add Contact
2. Search Contact
3. Display All Contacts
4. Exit
Enter choice: 3

--- Contact List ---
1 : 7708543501

1. Add Contact
2. Search Contact
3. Display All Contacts
4. Exit
Enter choice: 1
Enter contact name: Vignesh
Enter phone number: 8825535764
```

Global frame

contacts

dict

"1" "7708543501"

Step 65 of 72

23°C
Light rain

Search

ENG
IN

12:24-11-20