

## **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
```

line that just executed  
next line to execute

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

Frames Objects

Global frame dict

contacts "1" "7708543501"

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