K.RAMAKRISHNAN

COLLEGE OF TECHNOLOGY

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Practical Record Note

Name : PALANIRAJAN. K

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Subject code/name : Laboratory

Programme :

Certified that this is a bonafide record of work done by **PALANIRAJAN. K** of _____ Semester in **Python Programming - I Year - II Sem - Project Module** Laboratory during the academic year 2023-2024

Aim:

Project Module.

Program:

CTP28132.py

```
# Define the phonebook dictionary
phonebook = {}

# Function to add a new contact
def add_contact(name, phone):
    phonebook[name] = phone
    print(f"Contact {name} added with phone number {phone}")

# Function to view all contacts
def view_contacts():
    if phonebook:
        for name, phone in phonebook.items():
            print(f"Name: {name}, Phone: {phone}")
    else:
        print("Phonebook is empty.")

# Function to search for a contact by name
def search_contact(name):
    if name in phonebook:
        print(f"Name: {name}, Phone: {phonebook[name]}")
    else:
        print(f"Contact {name} not found.")

# Function to delete a contact by name
def delete_contact(name):
    if name in phonebook:
        del phonebook[name]
        print(f"Contact {name} deleted.")
    else:
        print(f"Contact {name} not found.")

# Function to edit a contact's name or phone number
def edit_contact(name):
    if name in phonebook:
        print("What would you like to edit?")
        print("1. Edit Name")
        print("2. Edit Phone Number")
        choice = input("Enter your choice: ")

        if choice == '1':
            new_name = input("Enter new name: ").strip()
            phonebook[new_name] = phonebook.pop(name)
            print(f"Contact {name} updated to {new_name} with existing phone
number {phonebook[new_name]}")
        elif choice == '2':
            new_phone = input("Enter new phone number: ").strip()
            phonebook[name] = new_phone
            print(f"Contact {name} updated with new phone number {new_phone}")
        else:
            print("Invalid choice. No changes made.")
    else:
        print(f"Contact {name} not found.")

# Main menu
def main_menu():
    while True:
        print("\nPhonebook Menu")
```

```
        print("1. Add Contact")
        print("2. View Contacts")
        print("3. Search Contact")
        print("4. Edit Contact")
        print("5. Delete Contact")
        print("6. Exit")
        choice = input("Enter your choice: ")

        if choice == '1':
            name = input("Enter name: ")
            phone = input("Enter phone number: ")
            add_contact(name, phone)
        elif choice == '2':
            view_contacts()
        elif choice == '3':
            name = input("Enter name to search: ")
            search_contact(name)
        elif choice == '4':
            name = input("Enter name to edit: ")
            edit_contact(name)
        elif choice == '5':
            name = input("Enter name to delete: ")
            delete_contact(name)
        elif choice == '6':
            print("Exiting phonebook. Goodbye!")
            break
        else:
            print("Invalid choice. Please try again.")

# Run the main menu if this file is executed directly
if __name__ == "__main__":
    main_menu()
```

Output:

Test case - 1
User Output
Hello World
Hello World

Result:

Thus the above program is executed successfully and the output has been verified