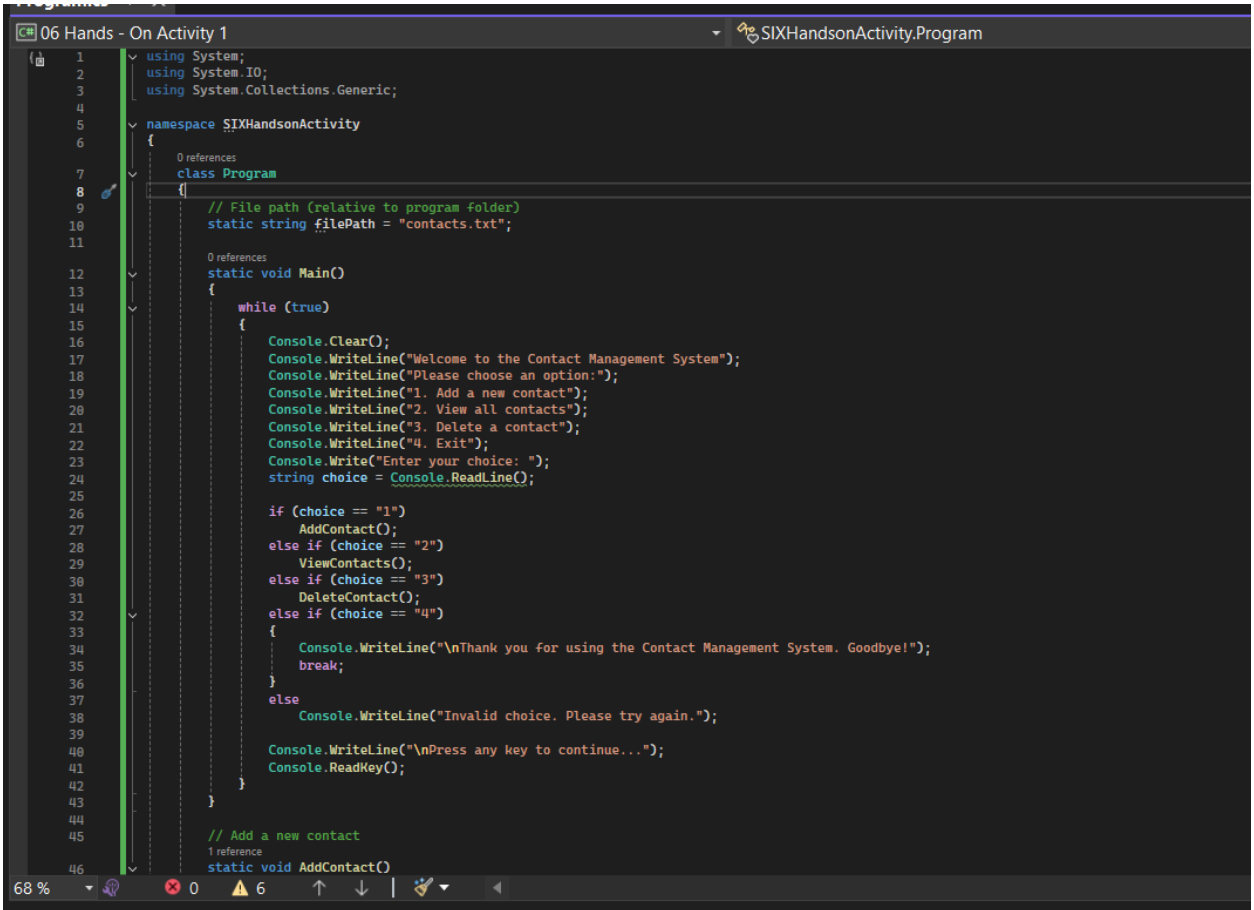
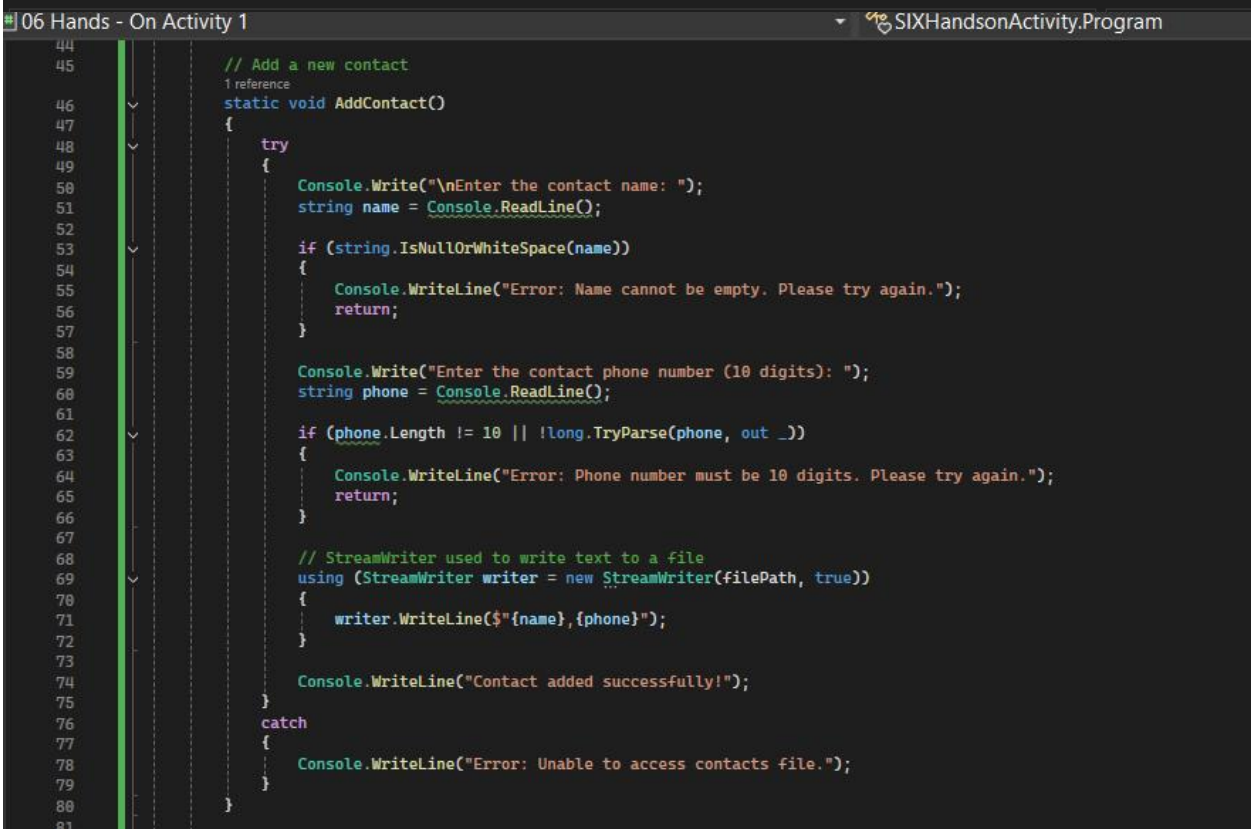
Anghela M. Aliza bsit3b



```
using System;
using System.IO;
using System.Collections.Generic;

namespace SIXHandsonActivity
{
    0 references
    class Program
    {
        // File path (relative to program folder)
        static string filePath = "contacts.txt";

        0 references
        static void Main()
        {
            while (true)
            {
                Console.Clear();
                Console.WriteLine("Welcome to the Contact Management System");
                Console.WriteLine("Please choose an option:");
                Console.WriteLine("1. Add a new contact");
                Console.WriteLine("2. View all contacts");
                Console.WriteLine("3. Delete a contact");
                Console.WriteLine("4. Exit");
                Console.Write("Enter your choice: ");
                string choice = Console.ReadLine();

                if (choice == "1")
                    AddContact();
                else if (choice == "2")
                    ViewContacts();
                else if (choice == "3")
                    DeleteContact();
                else if (choice == "4")
                {
                    Console.WriteLine("\nThank you for using the Contact Management System. Goodbye!");
                    break;
                }
                else
                    Console.WriteLine("Invalid choice. Please try again.");

                Console.WriteLine("\nPress any key to continue...");
                Console.ReadKey();
            }
        }

        // Add a new contact
        1 reference
        static void AddContact()
```



```
        // Add a new contact
        1 reference
        static void AddContact()
        {
            try
            {
                Console.Write("\nEnter the contact name: ");
                string name = Console.ReadLine();

                if (string.IsNullOrWhiteSpace(name))
                {
                    Console.WriteLine("Error: Name cannot be empty. Please try again.");
                    return;
                }

                Console.Write("Enter the contact phone number (10 digits): ");
                string phone = Console.ReadLine();

                if (phone.Length != 10 || !long.TryParse(phone, out _))
                {
                    Console.WriteLine("Error: Phone number must be 10 digits. Please try again.");
                    return;
                }

                // StreamWriter used to write text to a file
                using (StreamWriter writer = new StreamWriter(filePath, true))
                {
                    writer.WriteLine($"{name},{phone}");
                }

                Console.WriteLine("Contact added successfully!");
            }
            catch
            {
                Console.WriteLine("Error: Unable to access contacts file.");
            }
        }
```

```
        // View all contacts
        1 reference
        static void ViewContacts()
        {
            try
            {
                // File.Exists checks if file is present
                if (!File.Exists(filePath))
                {
                    Console.WriteLine("No contacts found.");
                    return;
                }

                // StreamReader used to read from a file
                using (StreamReader reader = new StreamReader(filePath))
                {
                    string line;
                    int count = 0;
                    List<string> contacts = new List<string>();

                    while ((line = reader.ReadLine()) != null)
                    {
                        contacts.Add(line);
                    }

                    if (contacts.Count == 0)
                    {
                        Console.WriteLine("No contacts found.");
                        return;
                    }

                    Console.WriteLine("\nAll Contacts:");
                    foreach (string contact in contacts)
                    {
                        count++;
                        string[] parts = contact.Split(',');
                        Console.WriteLine($"{count}. {parts[0]}, {parts[1]}");
                    }
                }
            }
            catch
            {
                Console.WriteLine("Error: Unable to read contacts file.");
            }
        }
```

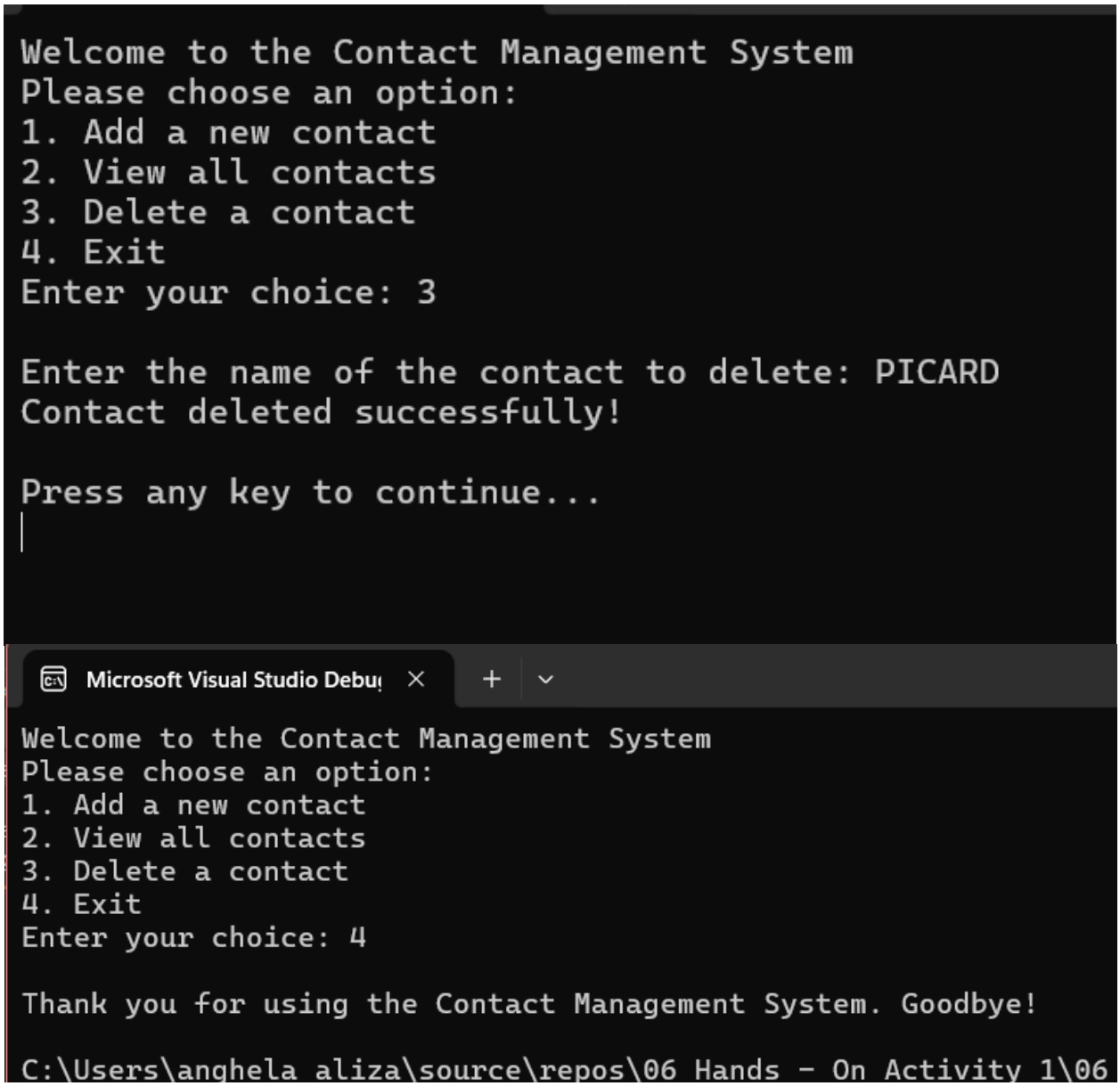
06 Hands - On Activity 1 | SIXHandsonActivity.Program

```
        // Delete a contact
        1 reference
        static void DeleteContact()
        {
            try
            {
                if (!File.Exists(filePath))
                {
                    Console.WriteLine("Error: No contacts found.");
                    return;
                }

                List<string> contacts = new List<string>(File.ReadAllLines(filePath));

                Console.Write("\nEnter the name of the contact to delete: ");
                string name = Console.ReadLine();

                bool found = false;

                for (int i = 0; i < contacts.Count; i++)
                {
                    string[] parts = contacts[i].Split(',');
                    if (parts[0].Equals(name, StringComparison.OrdinalIgnoreCase))
                    {
                        contacts.RemoveAt(i);
                        found = true;
                        break;
                    }
                }

                if (found)
                {
                    File.WriteAllLines(filePath, contacts);
                    Console.WriteLine("Contact deleted successfully!");
                }
                else
                {
                    Console.WriteLine("Error: Contact not found.");
                }
            }
            catch
            {
                Console.WriteLine("Error: Unable to access contacts file.");
            }
        }
    }
}
```

```
Welcome to the Contact Management System
Please choose an option:
1. Add a new contact
2. View all contacts
3. Delete a contact
4. Exit
Enter your choice:
```

```
Welcome to the Contact Management System
Please choose an option:
1. Add a new contact
2. View all contacts
3. Delete a contact
4. Exit
Enter your choice: 1

Enter the contact name: PICARD
Enter the contact phone number (10 digits): 1234567890
Contact added successfully!

Press any key to continue...
```

```
Welcome to the Contact Management System
Please choose an option:
1. Add a new contact
2. View all contacts
3. Delete a contact
4. Exit
Enter your choice: 2

All Contacts:
1. PICARD, 1234567890

Press any key to continue...
```


Welcome to the Contact Management System
Please choose an option:
1. Add a new contact
2. View all contacts
3. Delete a contact
4. Exit
Enter your choice: 3
Enter the name of the contact to delete: PICARD
Contact deleted successfully!
Press any key to continue...
Microsoft Visual Studio Debu
Welcome to the Contact Management System
Please choose an option:
1. Add a new contact
2. View all contacts
3. Delete a contact
4. Exit
Enter your choice: 4
Thank you for using the Contact Management System. Goodbye!
C:\Users\anghela aliza\source\repos\06 Hands - On Activity 1\06