

# Programación 1

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**Matrícula:** 2024 – 1717

**Día de clases:** Lunes

## Tarea #6

Usando los conocimientos adquiridos de POO, debe transformar, nuestro proyecto "Contactes" a ser un proyecto de programación orientada a objetos.

```
ContactsPOO > C# Program.cs > ContactManager > ViewContacts
1  using System;
2  using System.Collections.Generic;
3
4  4 references
4  class Contact
5  {
6      1 reference
6      public int Id { get; set; }
7      1 reference
7      public string Name { get; set; }
8      1 reference
8      public string Phone { get; set; }
9      1 reference
9      public string Email { get; set; }
10     1 reference
10     public string Address { get; set; }
11 }
12
13 3 references
13 class ContactManager
14 {
15     6 references
15     private List<Contact> contacts = new List<Contact>();
16     1 reference
16     private int nextId = 1;
17
18     1 reference
18     public ContactManager()
19     {
20         Console.WriteLine("\nMy agenda");
21         Console.WriteLine("Welcome to your contact list\n");
22     }
23 }
```

1 reference

```
public void AddContact()
{
    Contact newContact = new Contact { Id = nextId++ };
    Console.Write("Enter the name: ");
    newContact.Name = Console.ReadLine();
    Console.Write("Enter the phone number: ");
    newContact.Phone = Console.ReadLine();
    Console.Write("Enter the Email: ");
    newContact.Email = Console.ReadLine();
    Console.Write("Enter the address: ");
    newContact.Address = Console.ReadLine();

    contacts.Add(newContact);
    Console.WriteLine("Contact added successfully!\n");
}
```

3 references

```
public void ViewContacts()
{
    Console.WriteLine("Id      Name      Phone      Email      Address");
    Console.WriteLine("_____");

    foreach (var contact in contacts)
    {
        Console.WriteLine($"{contact.Id}      {contact.Name}      {contact.Phone}      {contact.Email}      {contact.Address}");
    }
}
```

1 reference

```
public void EditContact()
{
    ViewContacts();
    Console.Write("Enter a contact ID to edit: ");
    if (int.TryParse(Console.ReadLine(), out int id))
    {
        var contact = contacts.Find(c => c.Id == id);
        if (contact != null)
        {
            Console.Write("Enter new name (or press Enter to keep current): ");
            string newName = Console.ReadLine();
            if (!string.IsNullOrWhiteSpace(newName)) contact.Name = newName;

            Console.Write("Enter new phone (or press Enter to keep current): ");
            string newPhone = Console.ReadLine();
            if (!string.IsNullOrWhiteSpace(newPhone)) contact.Phone = newPhone;

            Console.Write("Enter new Email (or press Enter to keep current): ");
            string newEmail = Console.ReadLine();
            if (!string.IsNullOrWhiteSpace(newEmail)) contact.Email = newEmail;

            Console.Write("Enter new address (or press Enter to keep current): ");
            string newAddress = Console.ReadLine();
            if (!string.IsNullOrWhiteSpace(newAddress)) contact.Address = newAddress;

            Console.WriteLine("Contact updated successfully!\n");
        }
    }
}
```

```

    }
    else
    {
        Console.WriteLine("Contact not found.\n");
    }
}

1 reference
public void DeleteContact()
{
    ViewContacts();
    Console.Write("Enter a contact ID to delete: ");
    if (int.TryParse(Console.ReadLine(), out int id))
    {
        var contact = contacts.Find(c => c.Id == id);
        if (contact != null)
        {
            contacts.Remove(contact);
            Console.WriteLine("Contact deleted successfully!\n");
        }
        else
        {
            Console.WriteLine("Contact not found.\n");
        }
    }
}
}

```

```

0 references
class Program {
    0 references
    static void Main()
    {
        ContactManager manager = new ContactManager();
        bool running = true;

        while (running) {
            Console.WriteLine("1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit");
            Console.Write("Choose an option: ");

            if (int.TryParse(Console.ReadLine(), out int choice)) {
                switch (choice)
                {
                    case 1: manager.AddContact(); break;
                    case 2: manager.ViewContacts(); break;
                    case 3: manager.SearchContact(); break;
                    case 4: manager.EditContact(); break;
                    case 5: manager.DeleteContact(); break;
                    case 6: running = false; break;
                    default: Console.WriteLine("Invalid option, try again."); break;
                }
            } else {
                Console.WriteLine("Invalid input, please enter a number.");
            }
        }
    }
}

```

```
PS C:\Users\Martha\Documents\MyProjectsc#> cd ContactsP00
PS C:\Users\Martha\Documents\MyProjectsc#\ContactsP00> dotnet run
```

My agenda

Welcome to your contact list

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 1

Enter the name: Annelys

Enter the phone number: 8297645322

Enter the Email: anne25@gmail.com

Enter the address: Villa mella

Contact added successfully!

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 1

Enter the name: Luis

Enter the phone number: 8094563728

Enter the Email: LuisF@gmail.com

Enter the address: Los Mina

Contact added successfully!

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 1

Enter the name: Elena

Enter the phone number: 8491567268

Enter the Email: elena0710@gmail.com

Enter the address: Jacobo Majluta

Contact added successfully!

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 2

| Id | Name | Phone | Email | Address |
|----|------|-------|-------|---------|
|----|------|-------|-------|---------|

|   |         |            |                     |                |
|---|---------|------------|---------------------|----------------|
| 1 | Annelys | 8297645322 | anne25@gmail.com    | Villa mella    |
| 2 | Luis    | 8094563728 | LuisF@gmail.com     | Los Mina       |
| 3 | Elena   | 8491567268 | elena0710@gmail.com | Jacobo Majluta |

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 3

Enter a contact ID to show: 1

This name is: Annelys    This phone is: 8297645322    This Email is: anne25@gmail.com    This address is: Villa mella

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 4

| Id | Name | Phone | Email | Address |
|----|------|-------|-------|---------|
|----|------|-------|-------|---------|

|   |         |            |                     |                |
|---|---------|------------|---------------------|----------------|
| 1 | Annelys | 8297645322 | anne25@gmail.com    | Villa mella    |
| 2 | Luis    | 8094563728 | LuisF@gmail.com     | Los Mina       |
| 3 | Elena   | 8491567268 | elena0710@gmail.com | Jacobo Majluta |

Enter a contact ID to edit: 3

Enter new name (or press Enter to keep current): Elena

Enter new phone (or press Enter to keep current): 8091567268

Enter new Email (or press Enter to keep current): elena0719@gmail.com

Enter new address (or press Enter to keep current): Pedro Brand

Contact updated successfully!

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 2

| Id | Name | Phone | Email | Address |
|----|------|-------|-------|---------|
|----|------|-------|-------|---------|

|   |         |            |                     |             |
|---|---------|------------|---------------------|-------------|
| 1 | Annelys | 8297645322 | anne25@gmail.com    | Villa mella |
| 2 | Luis    | 8094563728 | LuisF@gmail.com     | Los Mina    |
| 3 | Elena   | 8091567268 | elena0719@gmail.com | Pedro Brand |

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 5

| Id | Name | Phone | Email | Address |
|----|------|-------|-------|---------|
|----|------|-------|-------|---------|

|   |         |            |                     |             |
|---|---------|------------|---------------------|-------------|
| 1 | Annelys | 8297645322 | anne25@gmail.com    | Villa mella |
| 2 | Luis    | 8094563728 | LuisF@gmail.com     | Los Mina    |
| 3 | Elena   | 8091567268 | elena0719@gmail.com | Pedro Brand |

Enter a contact ID to delete: 2

Contact deleted successfully!

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 2

| Id | Name | Phone | Email | Address |
|----|------|-------|-------|---------|
|----|------|-------|-------|---------|

|   |         |            |                     |             |
|---|---------|------------|---------------------|-------------|
| 1 | Annelys | 8297645322 | anne25@gmail.com    | Villa mella |
| 3 | Elena   | 8091567268 | elena0719@gmail.com | Pedro Brand |

1. Add contact    2. See contacts    3. Search contacts    4. Modify contact    5. Delete Contact    6. Exit

Choose an option: 6

PS C:\Users\Martha\Documents\MyProjectsc#\ContactsP00> █