Contact

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ContactAdressBook
{
    class Contact
    {
        private string personName;
        private string personId;
        private int age;
        private string mobileNumber;
        private char gender;
        public string PERSONNAME
        {
            set { personName = value; }
            get { return personName; }
        }
        public string PERSONID
        {
            set { personId = value; }
            get { return personId; }
        }
        public int AGE
        {
            set { age = value; }
            get { return age; }
        }
        public string MOBILENUMBER
        {
            set { mobileNumber = value; }
            get { return mobileNumber; }
        }
        public char GENDER
        {
            set { gender = value; }
            get { return gender; }
        }
        public Contact()
        {
            Console.WriteLine("Empty Constructor");
        }
        public Contact(string personName, string personId, int age, string
        mobileNumber, char gender)
        {
            this.personName = personName;
            this.personId = personId;
            this.age = age;
            this.mobileNumber = mobileNumber;
            this.gender = gender;
        }
        public void ShowPersonInfo()
        {
```

```
            Console.WriteLine("Person Name : " + personName);
            Console.WriteLine("Person Id : " + personId);
            Console.WriteLine("Age : " + age);
            Console.WriteLine("Mobile Number : " + mobileNumber);
            Console.WriteLine("Gender : " + gender);
        }
        public void DetectMobileOperator()
        {
            if (mobileNumber.Contains("017"))
            {
                Console.WriteLine("GRAMEENPHONE OPERATOR");
            }
            else if (mobileNumber.Contains("019"))
            {
                Console.WriteLine("BANGLALINK OPERATOR");
            }
            else if (mobileNumber.Contains("018"))
            {
                Console.WriteLine("ROBI OPERATOR");
            }
            else
                Console.WriteLine("OTHER OPERATOR");
        }
    }
}
```

ContactAdressBook

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ContactAdressBook
{
    class AddressBook
    {
        private string ownerName;
        private string info;
        private Contact[] listOfContact = new Contact[1000];
        public string OwnerName
        {
            set { ownerName = value; }
            get { return ownerName; }
        }
        public string Info
        {
            set { info = value; }
            get { return info; }
        }

        public AddressBook()
```

```
        {
        }
        public AddressBook(string name, string info)
        {
            this.ownerName = name;
            this.info = info;
        }
        public void ShowAllContactInfo()
        {
            Console.WriteLine("[-------------Contact Address Book---------------]");
            Console.WriteLine("Owner's Name : " + OwnerName);
            Console.WriteLine("Info : " + Info);
            Console.WriteLine("The Contact List showing bellow:\n");
            for (int i = 0; listOfContact[i] != null; i++)
            {
                Console.WriteLine("Contact " + (i + 1) + ":");
                listOfContact[i].ShowPersonInfo();
                Console.WriteLine();
            }
        }

        public void AddContact(Contact con)
        {
            if (listOfContact[0] == null)
            {
                listOfContact[0] = con;

            }
            else
            {
                for (int i = 0; listOfContact[i] != null; i++)
                {
                    if (listOfContact[i + 1] == null)
                    {
                        listOfContact[i + 1] = con;

                        break;
                    }
                }
            }
        }
        public void DeleteContact(Contact con)
        {
            for (int i = 0; listOfContact[i] != null; i++)
            {
                if (listOfContact[i].Equals(con))
                {
                    for (int j = i; listOfContact[j] != null; j++)
                    {
                        listOfContact[j] = listOfContact[j + 1];
                    }
                }
            }
        }
    }
}
```

Program

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ContactAdressBook
{
    class Program
    {
        static void Main(string[] args)
        {
            Contact obj1 = new Contact("Ashik", "015247822", 21, "01916467735", 'F');
            // obj1.ShowPersonInfo();
            // obj1.DetectMobileOperator();
            Contact obj2 = new Contact("Tarik", "1945678922", 25, "017258746", 'M');
            // obj2.ShowPersonInfo();
            // obj2.DetectMobileOperator();
            Contact obj3 = new Contact("Ashraf", "19403431", 30, "012588456", 'M');
            // obj3.ShowPersonInfo();
            // obj3.DetectMobileOperator();
            Contact obj4 = new Contact("Sabbir", "19235865", 28, "0142589562", 'O');
            // obj4.ShowPersonInfo();
            // obj4.DetectMobileOperator();
            AddressBook A1 = new AddressBook("XXXXXXX", "Personal Contact Info");
            A1.AddContact(obj1);
            A1.AddContact(obj2);
            A1.AddContact(obj3);
            A1.AddContact(obj4);
            A1.ShowAllContactInfo();
            Console.WriteLine("[-------------After Deletion of a Contact-Info-----------
-- -]\n");
        A1.DeleteContact(obj2);
            A1.ShowAllContactInfo();
        }
    }
}
```

Book

```
using System;
namespace BookTask

{

    class Book

    {



        private String bookName;

        private String bookAuthor;

        private String bookId;

        private String bookType;

        private int bookCopy;



        public Book()

        {

            Console.WriteLine("default constructor");

        }

        public Book(String bookName, String bookAuthor, String bookId, String bookType,
int bookCopy)

        {

            this.bookName = bookName;

            this.bookAuthor = bookAuthor;

            this.bookId = bookId;

            this.bookType = bookType;

            this.bookCopy = bookCopy;



        }
        public string BookName

        {

            set

            {
```

```
            this.bookName = value;
        }

        get
        {
            return this.bookName;
        }

    }
    public string BookAuthor
    {
        set
        {
            this.bookAuthor = value;
        }

        get
        {
            return this.bookAuthor;
        }

    }
    public string BookId
    {
        set
        {
            this.bookId = value;
        }
```

```
    get
    {
        return this.bookId;
    }

}
public String BookType
{
    set
    {
        this.bookType = value;
    }

    get
    {
        return this.bookType;
    }
}
public int BookCopy
{
    set
    {
        this.bookCopy = value;
    }
    get
    {
        return this.bookCopy;
    }
```

```
}
public void showPropertyInfo()
{
    Console.WriteLine("Book Name is      : " + BookName);
    Console.WriteLine("Book Author is    : " + BookAuthor);
    Console.WriteLine("Book ID is        : " + BookId);
    Console.WriteLine("Book Type is      : " + BookType);
    Console.WriteLine("Book Copy is      : " + BookCopy);

}

public void AddBookCopy(int x)
{
    bookCopy = bookCopy + x;
    Console.WriteLine("After adding book Book Copy is: " + bookCopy);
}

static void Main(string[] args)
{

    Book s1 = new Book("Tech Yourself", "Al Stevens", "11109", "CS", 9);
    Book s2 = new Book();

    Console.WriteLine("Showing from Property");
    s1.BookName = "Tech Smith";
    s1.BookAuthor = "Albert";
    s1.BookId = "111#hh";
    s1.BookType = "CS";
    s1.BookCopy = 12;
```

```
            s1.showPropertyInfo();
            s1.AddBookCopy(20);
            Console.ReadLine();
        }
    }
}
```