BOOK:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Book
{
    class Book
    {

        private string bookName;
        private string bookAuthor;
        private string bookId;
        private string bookType;
        private int bookCopy;


        public string BOOKNAME { set; get; }
        public string BOOKAUTHOR { set; get; }
        public string BOOKID { set; get; }
        public string BOOKTYPE { set; get; }
        public int BOOKCOPY { set; get; }


        public Book()
        {
            Console.WriteLine("Empty 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 void showInfo()
        {
            Console.WriteLine("Book Name : " + bookName);
            Console.WriteLine("Book Author: " + bookAuthor);
            Console.WriteLine("Book Id: " + bookId);
            Console.WriteLine("Book type: " + bookType);
            Console.WriteLine("Book copy: " + bookCopy);


        }
        public void addBookCopy(int x)
        {
            bookCopy = bookCopy + x;
            Console.WriteLine("Book Copy: " + x);
            bookCount = bookCopy;
```

```
        }
        public static int bookCount;
        public static void showTotalBook()
        {
            Console.WriteLine("Total BOOK: " + bookCount);
        }


    }
    class Program
    {
        static void Main(string[] args)
        {

            Console.WriteLine();
            Book b1 = new Book("JAVA The Complete Reference", "Herbert Schildt", "52CC2",
"Programming Language", 22);
            b1.showInfo();


            Console.ReadKey();
        }
    }
}
```

CONTACT:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Contact
{
    class contact
    {
        private string personName;
        private string personId;
        private int age;
        private string mobileNumber;
        private char gender;

        public string PERSONNAME { set; get; }
        public string PERSONID { set; get; }
        public int AGE { set; get; }
        public string MOBILENUMBER { set; get; }
        public char GENDER { set; get; }

        public contact()
        {

        }
        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 showInfo()
        {
            Console.WriteLine("Person_Name:{0} \n Person_Id:{1} \n Age:{2} \n
Mobile_Number:{3} \n Gender:{4}", personName, personId, age, mobileNumber, gender);
        }

        public void checkGender()
        {
            if (gender == 'm' || gender == 'M')
            {
                Console.WriteLine("gender: male");
            }

            else if (gender == 'f' || gender == 'F')
            {
                Console.WriteLine(" gernder: female");
            }
            else
                Console.WriteLine(" gender: make sure you give the right input");
        }

        public void DetectMobileOperator()
        {
            if (mobileNumber.Contains("017"))
            {
                Console.WriteLine("the number is Grameen Phone");
            }
            else if (mobileNumber.Contains("018"))
            {
                Console.WriteLine("the number is Robi");
            }
            else
                Console.WriteLine("Others Operator");

        }



    }


    class Program
    {
        static void Main(string[] args)
        {
            contact c1 = new contact("ASHRAF", "12-221", 20, "01859486255", 'M');
            c1.showInfo();
            c1.DetectMobileOperator();
            c1.checkGender();
```

```
            contact c2 = new contact("ASHIK", "12-222", 21, "01787881595", 'F');
            c2.showInfo();
            c2.DetectMobileOperator();
            c2.checkGender();

            contact c3 = new contact("TARIK", "12-223", 22, "01517037326", 'X');
            c3.showInfo();
            c3.DetectMobileOperator();
            c3.checkGender();

            Console.ReadKey();
        }
    }
}
```

MOBILE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Mobile
{
    class mobile
    {
        private string mobileOwnerName;
        private string mobileNumber;
        private string mobileBalance;
        private string mobileOSName;
        bool Lock;

        public string MOBILEOWNERNAME { set; get; }
        public string MOBILENUMBER { set; get; }
        public string MOBILEBALANCE { set; get; }
        public string MOBILEOSNAME { set; get; }
        public bool LOCK { set; get; }

        public mobile()
        {
            Console.WriteLine("empty");
        }

        public mobile(string mobileOwnerName, string mobileNumber, string mobileBalance,
string mobileOSName, bool Lock)
        {
            this.mobileOwnerName = mobileOwnerName;
            this.mobileNumber = mobileNumber;
            this.MOBILEBALANCE = mobileBalance;
            this.mobileOSName = mobileOSName;
            this.Lock = Lock;
        }
        public void showInfo()
        {
```

```
            Console.WriteLine("Mobile_owner_name:{0} \n Mobile_Number:{1} \n
Mobile_Balance:{2} \n Mobile_OS_Name:{3}", mobileOwnerName, mobileNumber, mobileBalance,
mobileOSName);
        }

        public void recharge(int amount)
        {
            if (Lock == true)
            {
                Console.WriteLine("can't recharge");
            }
            else
            {
                Console.WriteLine("mobile can recharge");
                mobileBalance = mobileBalance + amount;
                Console.WriteLine("mobile balance=" + amount);
            }
        }



        public void CallSomeone(int timeduration)
        {
            if (timeduration >= 1)
            {
                mobileBalance = mobileBalance + timeduration;
                Console.WriteLine("time" + timeduration + "min");
                Console.WriteLine("balance" + mobileBalance);
            }
            else
            {
                Console.WriteLine("time is less then 1 min");
            }
        }
    }
    class Program
    {
        static void Main(string[] args)
        {
            mobile m1 = new mobile("ASHRAF", "01859486522", "100", "Android", false);
            m1.showInfo();


            Console.ReadKey();
        }
    }
}
```