using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace BAI3\_CHUONG2

{

class Author

{

private string name;

private char gender;

private DateTime birthday;

private string email;

//properties

public string Name

{

get { return name; }

set { name = value; }

}

public char Gender

{

get { return gender; }

set {

if(value!='m'&& value !='f')

{

gender = 'u';

}

else

{

gender = value;

}

}

}

public DateTime Birthday

{

get { return birthday; }

set

{

birthday = value;

if(birthday.Year <1900 || birthday.Year>9999)

{

birthday = new DateTime(1900,1,1);

}

}

}

public string Email

{

get { return email; }

set

{

if(CheckEmail(value)==false)

{

email = null;

}

else

{

email = value;

}

}

}

public bool CheckEmail(string email)

{

bool kiemTraKyTu = true;

for(int i=0;i<email.Length;i++)

{

char x = email[i];

if((x<'0' ||x>'9')&&(x<'A'||x>'z')&&(x!='@'))

{

kiemTraKyTu = false;

break;

}

}

bool ketQua = kiemTraKyTu && email.Contains("@");

return ketQua;

}

public Author(string name, char gender)

{

this.name = name;

this.gender = gender;

if(gender!='m'&&gender!='f')

{

gender = 'u';

}

this.birthday = DateTime.ParseExact("01/01/1900","dd/MM/yyyy",null);

}

public Author(string name, char gender, string email)

{

this.name = name;

this.gender = gender;

if (gender != 'm' && gender != 'f')

{

gender = 'u';

}

this.birthday = DateTime.ParseExact("01/01/1900", "dd/MM/yyyy", null);

if(CheckEmail(email)==false)

{

this.email = null;

}

else

{

this.email = email;

}

}

public Author(string name, char gender, DateTime birthday,string email)

{

this.name = name;

this.gender = gender;

if (gender != 'm' && gender != 'f')

{

gender = 'u';

}

this.birthday = birthday;

//check mail

if (CheckEmail(email) == false)

{

this.email = null;

}

else

{

this.email = email;

}

}

public string CreateEmail(string domain)

{

string sEmail = "";

string tam = name;

tam= tam.ToLower();

for(int i=0;i<tam.Length;i++)

{

if(tam[i]==' ')

{

tam = tam.Replace(" ","");

}

}

sEmail = tam + "@" + domain;

return sEmail;

}

public int GetAge()

{

int Tuoi = DateTime.Now.Year - birthday.Year;

return Tuoi;

}

public string Print()

{

string sKQ = "";

sKQ = name + "(" + gender + "-" + GetAge() + ")" + email;

return sKQ;

}

}

}

//--------------

static void Main(string[] args)

{

Author t1 = new Author("Lan Anh",'m');

t1.Email = "lanhanh123ximuoi";

Author t2 = new Author("Minh",'f',DateTime.ParseExact("12/12/2012","dd/MM/yyyy",null),"12#2#2");

//xuat thong tin

Console.WriteLine(t1.Print());

Console.WriteLine("Create email : {0}",t1.CreateEmail("tdc.edu.vn"));

Console.WriteLine("Age : {0}",t1.GetAge());

Console.WriteLine("Ngay sinh : {0:d}",t2.Birthday);

Console.ReadKey();

}