namespace ClinicManagementApplication

{

class Program

{

static void Main(string[] args)

{

ManageUser program = new ManageUser();

program.GetUserDetails();

program.PrintUserDetails();

Console.ReadKey();

}

}

}

namespace ClinicManagementApplication

{

public class ManageUser

{

User NewUser = new User();

public void GetUserDetails()

{

Console.WriteLine("What is the user type ? Patient/ Doctor : ");

NewUser.UserType = Console.ReadLine().ToLower();

switch (NewUser.UserType)

{

case "patient" :

NewUser = new Patient();

((Patient)NewUser).GetUserInformation();

((Patient)NewUser).GetPatientInformation();

break;

case "doctor" :

NewUser = new Doctor();

((Doctor)NewUser).GetUserInformation();

((Doctor)NewUser).GetDoctorInformation();

break;

default :

Console.WriteLine("Invalid entry. Treating as patient.");

NewUser = new Patient();

((Patient)NewUser).GetUserInformation();

((Patient)NewUser).GetPatientInformation();

break;

}

}

public void PrintUserDetails()

{

Console.WriteLine(NewUser);

}

}

}

namespace ClinicManagementModelLibrary

{

public class User

{

public int UserId { get; set; }

public string UserName { get; set; }

public string UserPassword { get; set; }

public int UserAge { get; set; }

public string UserType { get; set; }

private string phone;

public string Phone

{

get

{

string masked = "xxxxxx" + phone.Substring(6, 4);

return masked;

}

set

{

phone = value;

}

}

public void GetUserInformation()

{

Console.WriteLine("Please enter the user ID : ");

UserId = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Please enter the user Name : ");

UserName = Console.ReadLine();

Console.WriteLine("Please enter the user Age : ");

UserAge = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Please enter the user Phone Number : ");

Phone = Console.ReadLine();

Console.WriteLine("Please enter the user Password : ");

UserPassword = Console.ReadLine();

}

public override string ToString()

{

return " User ID " + UserId + "\n User Name " + UserName + "\n User Phone " + Phone ;

}

}

}

namespace ClinicManagementModelLibrary

{

public class Doctor : User

{

public int Experience { get; set; }

public string Speciality { get; set; }

public Doctor()

{

UserType = "Doctor";

}

public void GetDoctorInformation()

{

Console.WriteLine("Please enter the Doctor Experience (year) : ");

Experience = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Please enter the Doctor Speciality : ");

Speciality = Console.ReadLine();

}

public override string ToString()

{

return base.ToString() + "\n User Type is :" + UserType + "\n Experince (year) : "+ Experience + "\n Speciality in " + Speciality;

}

}

}

namespace ClinicManagementModelLibrary

{

public class Patient : User

{

public string Remarks { get; set; }

public string Status { get; set; }

public Patient()

{

UserType = "Patient";

}

public void GetPatientInformation()

{

Console.WriteLine("Please enter Patient Status : ");

Status = Console.ReadLine();

Console.WriteLine("Please enter remarks : ");

Remarks = Console.ReadLine();

}

public override string ToString()

{

return base.ToString() + "\n User Type is : " + UserType + "\n User Status : " + Status + "\n Remark : " + Remarks;

}

}

}