**User**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ClinicModelsLibrary

{

public class User

{

public int id { get; set; }

public string name { get; set; }

public string password { get; set; }

public int age { get; set; }

public string type { get; set; }

public User()

{

type = "Patient";

}

public virtual void takeUserInfo()

{

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

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

Console.WriteLine("Please enter user name : ");

name = Console.ReadLine();

Console.WriteLine("Please enter user password : ");

password = Console.ReadLine();

Console.WriteLine("Please enter user age : ");

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

}

public virtual void displayUserInfo()

{

Console.WriteLine("User Id : {0}\n" +

"User Name : {1}\n" +

"User Password : {2}\n" +

"User Age : {3}\n" +

"User Type : {4}\n",

id, name, password, age, type);

}

}

}

**ManageUser**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using ClinicModelsLibrary;

namespace ClinicModelsLibrary

{

public class ManageUser

{

User[] users = new User[3];

public void registerUser()

{

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

{

Console.WriteLine("Please enter the user type Patient/Doctor : ");

User u;

string type = Console.ReadLine();

switch (type)

{

case "Doctor":

u = new Doctor();

break;

case "Patient":

u = new Patient();

break;

}

users[i] = ;

users[i].takeUserInfo();

}

}

public void displayUserInfo()

{

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

{

Console.WriteLine(users[i]);

}

}

}

}

**Program**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using ClinicModelsLibrary;

namespace Day5Assignment

{

class Program

{

static void Main(string[] args)

{

ManageUser program = new ManageUser();

program.registerUser();

User u = new User();

u.takeUserInfo();

u.displayUserInfo();

Console.ReadKey();

}

}

}

**Patient**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ClinicModelsLibrary

{

class Patient : User

{

public string remarks { get; set; }

public string status { get; set; }

public Patient()

{

type = "Patient";

}

public override void takeUserInfo()

{

base.takeUserInfo();

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

remarks = (Console.ReadLine());

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

status = Console.ReadLine();

}

public override void displayUserInfo()

{

base.displayUserInfo();

Console.WriteLine("Remarks :{0}\n" +

"Status : {1}\n", remarks, status);

}

}

}

**Doctor**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ClinicModelsLibrary

{

public class Doctor : User

{

public int experience { get; set; }

public string specialty { get; set; }

public Doctor()

{

type = "Doctor";

}

public override void takeUserInfo()

{

base.takeUserInfo();

Console.WriteLine("Please enter years of experience :");

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

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

specialty = Console.ReadLine();

}

public override void displayUserInfo()

{

base.displayUserInfo();

Console.WriteLine("Experience :{0}year(s)\n" +

"Speciality : {1}\n", experience, specialty);

}

}

}