**OOP Exercise-4 HandOut**

**Job Portal Console Application Development**

**Objective:**

Your task is to build a simple console application for a job portal that allows users to manage jobs, applications, and interviews. Utilize the provided code snippets as a foundation and complete the missing sections.

**Requirements:**

**1. Application Setup:**

- Create a new C# console application.

**2. JobPortalApplication Namespace:**

- Create a namespace named `JobPortalApplication `.

**3. Models:**

- Implement three classes in the Models namespace:

a. `Job` with properties:

- `int Id`

- `string Title`

- `string Description`

- `string Location`

- `string Salary`

- `string Type`

- `string Company`

c. `Interview` with properties:

- `int Id`

- `string Company`

- `string Post`

- `string Date`

- `string Location`

- `string Time`

d. User Class:

- Implement the `User` class in the Models namespace with properties:

- `int Id`

- `string? FirstName`

- `string? LastName`

- `string Email`

- `string Phone`

- `string Password`

- `Roles Role`

**4. Interfaces:**

- Create three interfaces in the Interfaces namespace:

1. IUser Interface

-Register(User)

-Login(string username,string password)

1. . `IJobProvider` with methods:

- `void PostJob(Job job);`

- `Job[] GetJobs();`

c. `IInterviewProvider` with methods:

- `void ScheduleInterview(Interview interview);`

- `Interview[] GetInterviews();`

**5. Managers:**

- Implement the `JobPortalManager` class in the Managers namespace. This class should implement all three interfaces (‘IUser’,`IJobProvider`, `IInterviewProvider`). Use the provided code as a reference.

**6. Printer Class:**

- Implement the `Printer` class in the Managers namespace with methods:

a. `Print(Job[] jobs);`

b. `Print(Application[] applications);`

c. `Print(Interview[] interviews);`

**7. Application Logic:**

- In the `Program.cs` file, implement the main logic of the application within the `Main` method. This should include:

- Initialization of `JobPortal` and `Printer` instances.

- Adding sample applications to the job portal.

- A menu system with options to manage jobs, applications, and interviews.

- For jobs:

- Listing jobs.

- Posting a new job.

- For user:

-Register.

-Login

- For interviews:

- Listing interviews.

- Scheduling a new interview.

- Exiting the application.

**8. User Interface:**

- Ensure the console interface is user-friendly with clear instructions and feedback.

**Note:**

- Follow the provided code snippets and complete the application.

- Use clear naming conventions for better code readability.

- Test the application to ensure all functionalities work as expected.

**Submission Guidelines:**

Submit the entire C# project, including all code files. Provide comments explaining major sections of your code. Include a brief document describing the overall structure of your application and how to use it. Highlight the role of the `Printer` class in formatting and displaying data.