Sample Run (inputs in bold underline)

```
ARH Management System
    Main Menu

1 - Doctor
2 - Patient
0 - Close Application
Enter option: 1

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 1

ID    Name            Specialist       Schedule      Qualifications    Room Nbr
21    Dr.Tyler        Pharmacy         5-11AM        PharmD,MS,RPh          17
32    Dr.Vikram       Family Medicine  10-3AM        MBBS,MD                45
17    Dr.Amy          General Surgery  8-2AM         BDM                    8B
33    Dr.David        Orthopedics      10-4PM        MBBS,MS                40
123   Dr. Ross        Neurology        8-10am        Mst,MD                102

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 2

Enter Dr ID: 99
Doctor with ID 99 not found

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 2

Enter Dr ID: 21
21    Dr.Tyler        Pharmacy         5-11AM        PharmD,MS,RPh          17

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
```

```
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 3


Enter the doctor name: Am
ID   Name                 Specialist         Schedule        Qualifications       Room Nbr
32   Dr.Vikram            Family Medicine    10-3AM          MBBS,MD                    45
17   Dr.Amy               General Surgery    8-2AM           BDM                        8B

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 4


Enter Dr ID: 21
21   Dr.Tyler             Pharmacy           5-11AM          PharmD,MS,RPh              17
Doctor with id 21 already exists - cannot add

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 4


Enter Dr ID: 64
Enter Dr name: Dr. Michael Smith
Enter Dr specialty: Cardiology
Enter Dr schedule: 10pm-6am
Enter Dr qualifications: MD,FRCPC
Enter Dr room number: 2
Doctor with id 64 successfully added

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 5


Enter ID of Doctor to be edited: 99
Dr with ID 99 not found

ID   Name                 Specialist         Schedule        Qualifications       Room Nbr
21   Dr.Tyler             Pharmacy           5-11AM          PharmD,MS,RPh              17
32   Dr.Vikram            Family Medicine    10-3AM          MBBS,MD                    45
17   Dr.Amy               General Surgery    8-2AM           BDM                        8B
33   Dr.David             Orthopedics        10-4PM          MBBS,MS                    40
```

```
123  Dr. Ross            Neurology          8-10am         Mst,MD              102
64   Dr. Michael Smith   Cardiology         10pm-6am       MD,FRCPC              2

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 5

Enter ID of Doctor to be edited: 17
17   Dr.Amy              General Surgery    8-2AM          BDM                  8B
Enter new name: Dr. Amy Jones
Enter new specialty in: General Surgery
Enter new schedule: 8am-4pm
Enter new qualifications: BDM
Enter new room number: 8B
Dr with ID 17 successfully modified

ID   Name                Specialist         Schedule       Qualifications    Room Nbr
21   Dr.Tyler            Pharmacy           5-11AM         PharmD,MS,RPh         17
32   Dr.Vikram           Family Medicine    10-3AM         MBBS,MD               45
17   Dr. Amy Jones       General Surgery    8am-4pm        BDM                   8B
33   Dr.David            Orthopedics        10-4PM         MBBS,MS               40
123  Dr. Ross            Neurology          8-10am         Mst,MD               102
64   Dr. Michael Smith   Cardiology         10pm-6am       MD,FRCPC               2

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 9
Enter option: k
Enter option: 0

ARH Management System
    Main Menu

1 - Doctor
2 - Patient
0 - Close Application
Enter option: 1

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: 1
```

```
ID    Name                Specialist         Schedule      Qualifications      Room Nbr
21    Dr.Tyler            Pharmacy           5-11AM        PharmD,MS,RPh             17
32    Dr.Vikram           Family Medicine    10-3AM        MBBS,MD                   45
17    Dr. Amy Jones       General Surgery    8am-4pm       BDM                       8B
33    Dr.David            Orthopedics        10-4PM        MBBS,MS                   40
123   Dr. Ross            Neurology          8-10am        Mst,MD                   102
64    Dr. Michael Smith   Cardiology         10pm-6am      MD,FRCPC                   2
```

ARH Management System
    Doctor's Menu

1 - List of Doctors
2 - Search for Doctor by ID
3 - Search for Doctor by Name/Partial Name
4 - Add new Doctor
5 - Edit Doctor Info
0 - Return to Main Menu
Enter option: **0**

ARH Management System
    Main Menu

1 - Doctor
2 - Patient
0 - Close Application
Enter option: **2**

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: **1**

```
ID    Name                Diagnosis          Gender    Age
12    Pankaj              Cancer             Male       30
13    Sumit               Covid              Male       23
14    Alok                Malaria            Male       45
15    Ravi                Diabetes           Male       25
```

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: **2**

Enter Patient ID: **99**
Patient with ID 99 not found

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info

```
0 - Return to Main Menu
Enter option: 2

Enter Patient ID: 14
14   Alok             Malaria              Male      45

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: 3

Enter Patient ID: 15
15   Ravi             Diabetes             Male      25
Patient with ID 15 already exists - cannot add

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: 3

Enter Patient ID: 16
Enter Patient name: Ted E. Bear
Enter Patient diagnosis: Erratic heartbeat
Enter Patient gender: Male
Enter Patient age: 3
Patient with ID 16 successfully added

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: 4

Enter ID of Patient to be edited: 99
Patient with ID 99 not found

ID   Name             Diagnosis            Gender    Age
12   Pankaj           Cancer               Male      30
13   Sumit            Covid                Male      23
14   Alok             Malaria              Male      45
15   Ravi             Diabetes             Male      25
16   Ted E. Bear      Erratic heartbeat    Male       3

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
```

```
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: 4

Enter ID of Patient to be edited: 12
12   Pankaj              Cancer              Male        30
Enter new name: Pankaj K
Enter new diagnosis: Liver Cancer
Enter new gender: Male
Enter new age: 31
Patient with ID 12 successfully modified

ID   Name                Diagnosis           Gender    Age
12   Pankaj K            Liver Cancer        Male       31
13   Sumit               Covid               Male       23
14   Alok                Malaria             Male       45
15   Ravi                Diabetes            Male       25
16   Ted E. Bear         Erratic heartbeat   Male        3

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: 9
Enter option: f
Enter option: 0

ARH Management System
    Main Menu

1 - Doctor
2 - Patient
0 - Close Application
Enter option: 2

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
0 - Return to Main Menu
Enter option: 1

ID   Name                Diagnosis           Gender    Age
12   Pankaj K            Liver Cancer        Male       31
13   Sumit               Covid               Male       23
14   Alok                Malaria             Male       45
15   Ravi                Diabetes            Male       25
16   Ted E. Bear         Erratic heartbeat   Male        3

ARH Management System
    Patient's Menu

1 - List of Patients
2 - Search for Patient by ID
3 - Add new Patient
4 - Edit Patient Info
```

```
0 - Return to Main Menu
Enter option: 0

ARH Management System
    Main Menu

1 - Doctor
2 - Patient
0 - Close Application
Enter option: 9
Enter option: Y
Enter option: 0
ARH Management System successfully closed
```