1) Start the program and don't load the scheduled appointments, enter invalid option, then exit)

2) Start the program and load the scheduled appointments from appointments 1.csv, then 3 and enter invalid day)

Starting the Appointment Manager System Weekly calendar created Would you like to load previously scheduled appointments from a file (Y/N)? Y Enter appointment filename: appointments.cs File not found. Re-enter appointment filename: appointments1.csv 3 previously scheduled appointments have been loaded							
Hair Salon A	ppointment Mana						
 Schedule an Find appoint 	appointment ment by name ar for a specif: pointment pointment tal fees for a a tal weekly fees tem tion: 3 r for a specific k: toosday	ic day day					
Client Name	Phone	Day	Start	End	Туре		
	ppointment Mana						
1) Schedule an 2) Find appoint 3) Print calend 4) Cancel an ap 5) Change an ap 6) Calculate to 7) Calculate to 9) Exit the sys Enter your select	appointment ment by name ar for a specif: pointment tal fees for a o tal weekly fees tem						

3) Option 3 – print a calendar for a valid day

```
Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
 9) Exit the system
Enter your selection: 3
** Print calendar for a specific day **
Enter day of week: saturday
Appointments for Saturday
Client Name
                                                                       Start
                                                       Day
                                                                                        End
                                                                                                        Type
                               587-123-4567 Saturday 09:00 - 10:00
368-999-1111 Saturday 10:00 - 11:00
Saturday 11:00 - 12:00
Saturday 12:00 - 13:00
Saturday 13:00 - 14:00
Saturday 14:00 - 15:00
Saturday 15:00 - 16:00
Saturday 16:00 - 17:00
                                                                                                      Mens Colouring
Tyler
Stephanie
                                                                                                        Ladies Cut
                                                                                                        Available
                                                                                                        Available
                                                                                                        Available
                                                                                                        Available
                                                                                                        Available
                                                                                                        Available
     Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name
 3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection:
```

4) Option 1 – schedule a new appointment

```
Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name
 3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment
 6) Calculate total fees for a day
 7) Calculate total weekly fees
 9) Exit the system
Enter your selection: 1
** Schedule an appointment **
What day: thursday
Enter start hour (24 hour clock): 11
Client Name: Steven
Client Phone: 403-600-6000
Appointment types
1: Mens Cut $40, 2: Ladies Cut $60, 3: Mens Colouring $40, 4: Ladies Colouring $80
Type of Appointment: 1
OK, Steven's appointment is scheduled!
    Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name
 3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment
6) Calculate total fees for a day
 7) Calculate total weekly fees
9) Exit the system
Enter your selection:
```

5) Option 1 – schedule a new appointment in a booked spot

Hair Salon Appointment Manager 1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection: 1 ** Schedule an appointment ** What day: Thursday Enter start hour (24 hour clock): 11 Sorry that time slot is booked already! Hair Salon Appointment Manager -----1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:

6) Option 1 – schedule a new appointment with invalid day as Sunday or invalid hour as 8 or 25

Hair Salon Appointment Manager 1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection: 1 ** Schedule an appointment ** What day: sunday Enter start hour (24 hour clock): 11 Sorry that time slot is not in the weekly calendar! Hair Salon Appointment Manager 1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:

Hair Salon Appointment Manager 1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection: 1 ** Schedule an appointment ** What day: Monday Enter start hour (24 hour clock): 8 Sorry that time slot is not in the weekly calendar! Hair Salon Appointment Manager 1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:

7) Option 2 – Find an appointment using an existing name

Hair Salon Appo	intment Manager	====					
1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection: 2							
** Find appointment by name ** Enter Client Name: Steven							
	Appointments for Steven						
Client Name	Phone	Day	Start	End	Туре		
Steven	403-600-6000	Thursday	11:00 -	12:00	Mens Cut		
Hair Salon Appo	 intment Manager	====					
1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:							
8) Option	2 – Find an a	appointr	nent usi	ing non-	existing name		
Hair Salon App	 ointment Manage	===== er					
1) Schedule an app 2) Find appointme 3) Print calendar 4) Cancel an appo 5) Change an appo 6) Calculate tota 7) Calculate tota 9) Exit the syste	nt by name for a specific intment intment l fees for a da l weekly fees m						
Enter your selection	on: 2						
** Find appointment by name ** Enter Client Name: hamdy Appointments for hamdy							
Client Name	Phone	Day	Start	End	Туре		
No appointments for	und.						
Hair Salon App	 ointment Manage	 er					
1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:							

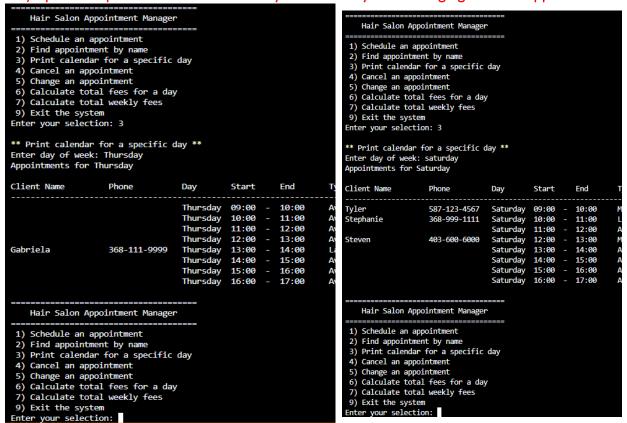
9) Option 3 – print Thursday Calendar after adding Steven

```
Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name
 3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment6) Calculate total fees for a day7) Calculate total weekly fees
9) Exit the system
Enter your selection: 3
** Print calendar for a specific day **
Enter day of week: Thursday
Appointments for Thursday
Client Name
                         Phone
                                           Day
                                                       Start
                                                                   End
                                                                                Type
                                           Thursday
                                                       09:00
                                                                   10:00
                                                                               Available
                                           Thursday
                                                       10:00
                                                                   11:00
                                                                               Available
                                           Thursday
Steven
                         403-600-6000
                                                       11:00
                                                                   12:00
                                                                               Mens Cut
                                           Thursday
                                                       12:00
                                                                   13:00
                                                                               Available
                                           Thursday
Gabriela
                         368-111-9999
                                                       13:00
                                                                   14:00
                                                                               Ladies Colouring
                                           Thursday 14:00
Thursday 15:00
                                                                   15:00
                                                                               Available
                                                                   16:00
                                                                               Available
                                           Thursday 16:00
                                                                               Available
                                                                   17:00
     Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name
 3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment
6) Calculate total fees for a day
 7) Calculate total weekly fees
9) Exit the system
Enter your selection:
```

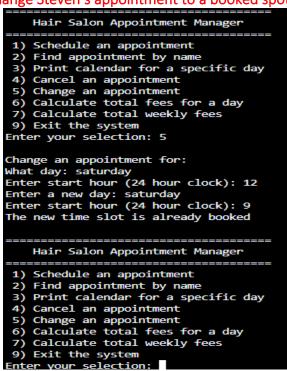
10) Option 5 – Change Steven's appointment

Hair Salon Appointment Manager
 Schedule an appointment Find appointment by name Print calendar for a specific day Cancel an appointment Change an appointment Calculate total fees for a day Calculate total weekly fees Exit the system Enter your selection: 5
Change an appointment for: What day: Thursday Enter start hour (24 hour clock): 11 Enter a new day: saturday Enter start hour (24 hour clock): 12 Appointment for Steven has been changed to: Day = Saturday Time = 12
Hair Salon Appointment Manager
1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:

11) Option 3 – print calendar for Thursday and Saturday after changing Steven's appointment



12) Option 5 – Change Steven's appointment to a booked spot as Saturday at 9)



13) Option 5 – Change a non-booked appointment Saturday at 11

```
Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment6) Calculate total fees for a day
 7) Calculate total weekly fees
9) Exit the system
Enter your selection: 5
Change an appointment for:
What day: Saturday
Enter start hour (24 hour clock): 11
That time slot isn't booked and doesn't need to be changed
     Hair Salon Appointment Manager
 1) Schedule an appointment
 2) Find appointment by name3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment
 6) Calculate total fees for a day
 Calculate total weekly fees
9) Exit the system 
Enter your selection:
```

14) option 6 – Calculate total fees for Saturday

```
Hair Salon Appointment Manager

1) Schedule an appointment
2) Find appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection: 6

Fees calculation per day...
What day: saturday
Total fees for Saturday is $140

Hair Salon Appointment Manager

1) Schedule an appointment
2) Find appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection:
```

15) Option 6 – Calculate total fees for invalid day as toosday/Sunday

```
Hair Salon Appointment Manager

1) Schedule an appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection: 6

Fees calculation per day....
What day: toosday
Toosday is invalid day or the salon is closed

1) Schedule an appointment
2) Find appointment Manager

Hair Salon Appointment Manager

Hair Salon Appointment
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
6) Exit the system
7) Calculate total weekly fees
9) Exit the system
8) Exit tenter your
```

```
Hair Salon Appointment Manager

1) Schedule an appointment
2) Find appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection: 6

Fees calculation per day...
What day: sunday
Sunday is invalid day or the salon is closed

Hair Salon Appointment Manager

1) Schedule an appointment
2) Find appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection:
```

16) Option 7 – Calculate total weekly fees

Hair Salon Appointment Manager 1) Schedule an appointment Find appointment by name
 Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment
6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection: 7 Total weekly fees is \$220 Hair Salon Appointment Manager Schedule an appointment
 Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day Calculate total weekly fees 9) Exit the system Enter your selection:

17) Option 4 – Cancel Steven's appointment

Hair Salon Appointment Manager

1) Schedule an appointment
2) Find appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection: 4

** Cancel an appointment **
What day: saturday
Enter start hour (24 hour clock): 12
Appointment: Saturday 12:00 - 13:00 for Steven has been cancelled!

Hair Salon Appointment Manager

Hair Salon Appointment
2) Find appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection:

18) Option 2 – find Steven's appointment

1) Schedule an 2) Find appoint 3) Print calenc 4) Cancel an ap 5) Change an ap 6) Calculate to	tment by name lar for a specific pointment pointment stal fees for a stal weekly fees stem etion: 2 ment by name ** me: steven	ic day				
Client Name	Phone	Day	Start	End	Туре	
No appointments						
Hair Salon A	Appointment Mana	ger				

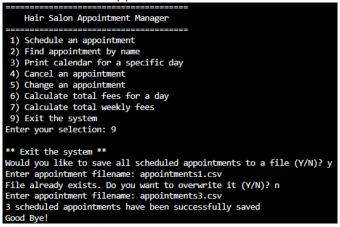
19) Option 4 – Cancel non-booked appointment as Saturday at 11

```
Hair Salon Appointment Manager
 1) Schedule an appointment
     Find appointment by name
 3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment6) Calculate total fees for a day7) Calculate total weekly fees
 9) Exit the system
Enter your selection: 4
** Cancel an appointment **
What day: saturday
Enter start hour (24 hour clock): 11
That time slot isn't booked and doesn't need to be cancelled
     Hair Salon Appointment Manager

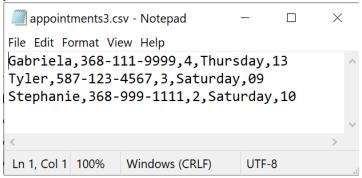
    Schedule an appointment
    Find appointment by name
    Print calendar for a specific day

 4) Cancel an appointment
 5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection:
```

20) Option 9 – Exit the system with saving the scheduled appointments in another file as appointments3.csv



Here is the created appointments3.csv file



21) Option 9 – Exit the system without saving the scheduled appointments

```
Hair Salon Appointment Manager

1) Schedule an appointment
2) Find appointment by name
3) Print calendar for a specific day
4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees
9) Exit the system
Enter your selection: 9

** Exit the system **
Would you like to save all scheduled appointments to a file (Y/N)? N
Good Bye!
```

All the functionalities should work regardless of initial loading the scheduled appointments from the appointments1.csv file. The following is a sample.

Initially start the program and test the program using the following test cases

Starting the Appointment Manager System Weekly calendar created Would you like to load previously scheduled appointments from a file (Y/N)? n _____ Hair Salon Appointment Manager _____ 1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:

Schedule a new appointment

```
Hair Salon Appointment Manager
 1) Schedule an appointment
  2) Find appointment by name
  3) Print calendar for a specific day

4) Cancel an appointment
5) Change an appointment
6) Calculate total fees for a day
7) Calculate total weekly fees

9) Exit the system
Enter your selection: 1
** Schedule an appointment **
What day: monday
Enter start hour (24 hour clock): 13
Client Name: Maria
Client Phone: 403-700-7000
Appointment types

1: Mens Cut $40, 2: Ladies Cut $60, 3: Mens Colouring $40, 4: Ladies Colouring $80
Type of Appointment: 2

OK, Maria's appointment is scheduled!
     Hair Salon Appointment Manager
 1) Schedule an appointment
  2) Find appointment by name
  3) Print calendar for a specific day
 4) Cancel an appointment
 5) Change an appointment
6) Calculate total fees for a day
  7) Calculate total weekly fees
 9) Exit the system
Enter your selection:
```

Find the scheduled appointment

Hair Salon App	ointment Manage				
1) Schedule an app 2) Find appointme 3) Print calendar 4) Cancel an appo 5) Change an appo 6) Calculate tota 7) Calculate tota 9) Exit the syste Enter your selection ** Find appointment Enter Client Name: Appointments for m	nt by name for a specific intment intment l fees for a day l weekly fees m on: 2 t by name ** ma				
Client Name	Phone	Day	Start	End	Туре
Maria	403-700-7000	Monday	13:00 -	14:00	Ladies Cut
Hair Salon Appointment Manager					
1) Schedule an appointment 2) Find appointment by name 3) Print calendar for a specific day 4) Cancel an appointment 5) Change an appointment 6) Calculate total fees for a day 7) Calculate total weekly fees 9) Exit the system Enter your selection:					

Calculate total weekly fees



Exit the program and save all scheduled appointments in appointments4.csv

The created appointments.4.csv file

