Documentation of Code

Complie: g++ -std=c++11 mile2.cpp precondViolationExcep.cpp Attraction.cpp City.cpp Sport.cpp Culture.cpp Shopping.cpp Flight.cpp —o a.exe

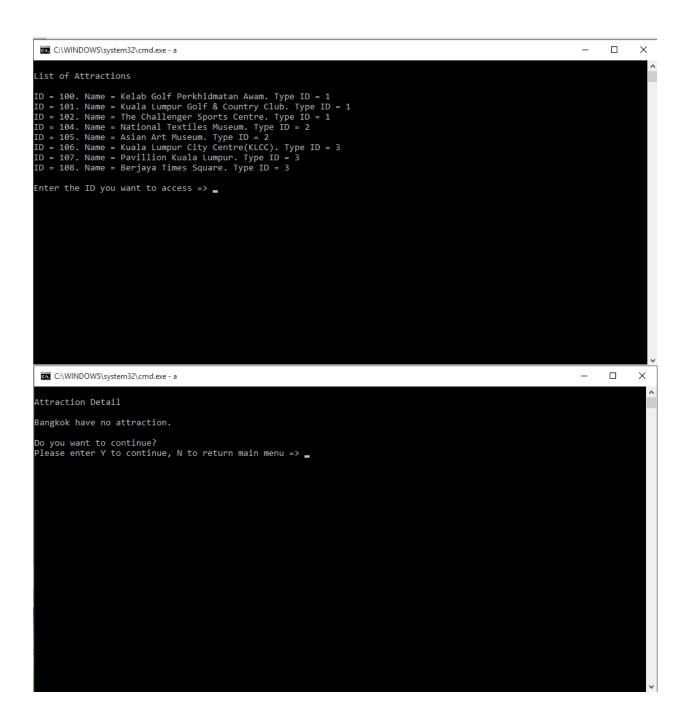
This is the main menu of the program. User are require to key in 1 to 3 in order to continue.



If user entered 1 in the main menu, it will access the tourist information system. User are require to key in 1 to access attraction detail or 2 to access flight information.

If user entered 1 in the tourist information system, the program will ask user to enter city ID, type ID and attraction ID that user wanted to view the detail. If the city has no attractions it will tell user that it has no attraction.





After the program show the detail of the attraction, user are require to press y or n to continue. If user entered y, the program will continue ask the user for attraction detail or flight detail. If user entered n, the program will go back to main menu

```
Attraction Detail

Name = Kelab Golf Perkhidmatan Awam
Address = Jalan Damansara, Bukit Kiara, 60000 Kuala Lumpur, Malaysia
Phone = +60379573344
Operating Hour = Mon - Fri (8:30am to 5:15pm)

Do you want to continue?
Please enter Y to continue, N to return main menu => _____
```

If user entered 2 in the tourist information system, the program will ask user to enter what is the origin city and destination city.

```
City ID and Name

ID Name

5 Bangkok
1 Kuala Lumpur
2 Seoul
3 Singapore

Please enter the city ID for the following:
From which city =>
```

```
City ID and Name

ID Name
5 Bangkok
2 Seoul
3 Singapore

To which city =>
```

The program will show the direct flight. If there is no direct flight it will show the indirect flight. If there is none of both, it will tell user there is no direct and indirect flight.

```
Flight Detail
There is indirect flight from Bangkok to Singapore.
Bangkok -> Seoul -> Singapore

Do you want to continue?
Please enter Y to continue, N to return main menu => ____
```

```
Flight Detail
There is direct flight from Kuala Lumpur to Singapore.

Do you want to continue?
Please enter Y to continue, N to return main menu => ____
```

If user key in 2 in main menu to access administrator menu, user are required to type in password (default password = admin123). This is to make sure user cannot just simply modify the data stored in the program.

```
© C:\WINDOWS\system32\cmd.exe-a — □ X

Please enter password to login as administator ⇒ ■
```



After user key in the correct password, the program will enter into administrator menu. 1-3 is to change city data, 4-6 is to change attraction data, 7-9 is to change flight data, and 10-15 is additional choices to ease admin when changing data. 16 is to go back main menu.

If user chooses 1 to modify city data, the program will ask which city ID to modify. After that the program will ask user to enter new city ID and city name. After that, the program will ask whether the new city have direct flight to any other city and whether any other city have direct flight to the new city. The program will ask whether the new city does not have direct flight to any other city and whether any other city does not have direct flight to the new city.

```
which city to modify?

ID Name
5 Bangkok
1 Kuala Lumpur
2 Seoul
3 Singapore

Please enter ID to continue =>_
```

```
C:\WINDOWS\system32\cmd.exe - a
                                                                                                                                                                         - □ ×
ID = 1. Name = Kuala Lumpur.
ID = 2. Name = Seoul.
ID = 3. Name = Singapore.
Does Taipei have any direct flight to any city above? N to stop. Please enter the city id => \blacksquare
  C:\WINDOWS\system32\cmd.exe - a
                                                                                                                                                                         - □ ×
ID = 1. Name = Kuala Lumpur.
ID = 2. Name = Seoul.
ID = 3. Name = Singapore.
Does any city above have direct flight to Taipei? N to stop.
Please enter the city id =>
```



If user entered 2 to add city data, the program will ask user the new city ID and new city name. The program will ask whether the new city have direct flight to any other city and whether any other city have direct flight to the new city.

```
TO = 1. Name = Kuala Lumpur.

ID = 2. Name = Seoul.

ID = 3. Name = Singapore.

ID = 5. Name = Taipei.

Please enter the following things:

City ID => 6

City Name => ____
```

If user entered 3 to remove city data, the program will ask the user which position to remove the city. The program will ask whether the new city does not have direct flight to any other city and whether any other city does not have direct flight to the new city.

```
List of Cities

D = 6. Name = Bangkok.
D = 1. Name = Kuala Lumpur.
D = 2. Name = Seoul.
D = 3. Name = Singapore.
D = 5. Name = Taipei.

Remove front
Remove front
Remove from a position

Please enter 1-3 to continue => ____
```

If user entered 4 to modify attraction data, the program will ask the user which city to modify, the attraction ID that wanted to modify. If the city have no attractions, the program will tell user that it has no attractions. The program will ask user for ID, name, type ID, address, phone number, and operating hour. If user type id is 2, the program will also ask entrance fee.

```
which city to modify?

ID Name

1 Kuala Lumpur

2 Sequil

3 Singapore

5 Taipei

Please enter ID to continue =>=
```

```
which city to modify?

ID Name

1 Kuala Lumpur

2 Seoul

3 Singapore

5 Taipei

Please enter ID to continue =>5

This city does not contain any attraction.

Press any key to continue . . .
```

```
List of Attractions

ID = 100. Name = Kelab Golf Perkhidmatan Awam. Type ID = 1
ID = 101. Name = Kuala Lumpur Golf & Country Club. Type ID = 1
ID = 102. Name = The Challenger Sports Centre. Type ID = 1
ID = 104. Name = National Textiles Museum. Type ID = 2
ID = 106. Name = Asian Art Museum. Type ID = 2
ID = 106. Name = Kuala Lumpur City Centre(KLCC). Type ID = 3
ID = 107. Name = Pavillion Kuala Lumpur. Type ID = 3
ID = 108. Name = Berjaya Times Square. Type ID = 3
Please enter ID to modify =>

Please enter ID to modify =>
```

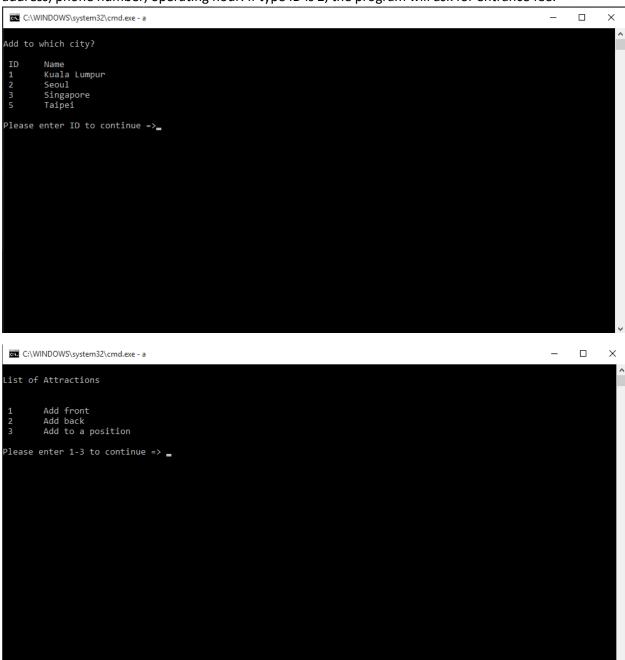
```
List of Attractions

ID = 100. Name = Kelab Golf Perkhidmatan Awam. Type ID = 1
ID = 101. Name = Kuala Lumpur Golf & Country Club. Type ID = 1
ID = 102. Name = The Challenger Sports Centre. Type ID = 1
ID = 104. Name = National Textiles Museum. Type ID = 2
ID = 106. Name = Asian Art Museum. Type ID = 2
ID = 106. Name = Kuala Lumpur City Centre(KICC). Type ID = 3
ID = 107. Name = Pavillion Kuala Lumpur. Type ID = 3
ID = 108. Name = Berjaya Times Square. Type ID = 3
Please enter ID to modify =>100
Please update the following data :
ID => 231
Name => Stadium Kuala Lumpur
Type ID => 1
Address => No 1234 Jalan Stadium, 61059 Kuala Lumpur
Phone number => 03-43546346
Operating Hour => Daily
```

```
List of Attractions

ID = 231. Name = Stadium Kuala Lumpur. Type ID = 1
ID = 101. Name = Kuala Lumpur Golf & Country Club. Type ID = 1
ID = 102. Name = The Challenger Sports Centre. Type ID = 1
ID = 104. Name = National Textiles Museum. Type ID = 2
ID = 106. Name = Asian Art Museum. Type ID = 2
ID = 106. Name = Kuala Lumpur City Centre(KLCC). Type ID = 3
ID = 107. Name = Pavillion Kuala Lumpur. Type ID = 3
ID = 108. Name = Berjaya Times Square. Type ID = 3
IP = 108. Name = Berjaya Times Square. Type ID = 3
IP = 231
Name => Stadium Kuala Lumpur
Type ID => 2
Address => No 1234 Jalan Stadium, 61059 Kuala Lumpur
Phone number => 03-43546346
Operating Hour => Daily
Entrance Fee => 10
```

If user entered 5 to add attraction data, the program will ask user city ID, position, type ID, ID, name, address, phone number, operating hour. If type ID is 2, the program will ask for entrance fee.







If user entered 6 to remove attraction data, the program will ask for city ID and position. If there is no attraction, the program will notify user that the city does not have any attraction to delete.



```
List of Attractions

ID = 231. Name = Stadium Kuala Lumpur. Type ID = 2
ID = 101. Name = Kuala Lumpur Golf & Country Club. Type ID = 1
ID = 102. Name = The Challenger Sports Centre. Type ID = 1
ID = 102. Name = National Textiles Museum. Type ID = 2
ID = 106. Name = Asian Art Museum. Type ID = 2
ID = 106. Name = Kuala Lumpur City Centre(KLCC). Type ID = 3
ID = 107. Name = Pavillion Kuala Lumpur. Type ID = 3
ID = 108. Name = Serjaya Times Square. Type ID = 3
I Remove front
2 Remove from a position

Please enter 1-3 to continue =>
```

If user entered 7 to modify flight data, the program will ask whether the new city have direct flight to any other city and whether any other city have direct flight to the new city. The program will ask whether the new city does not have direct flight to any other city and whether any other city does not have direct flight to the new city.

```
C:\WINDOWS\system32\cmd.exe - a
                                                                                                                                                                             _ _
ID = 1. Name = Kuala Lumpur.
ID = 1. Name = Rudid Camp
ID = 2. Name = Seoul.
ID = 3. Name = Singapore.
Does Taipei have any direct flight to any city above? N to stop. Please enter the city id => \_
  C:\WINDOWS\system32\cmd.exe - a
ID = 1. Name = Kuala Lumpur.
ID = 2. Name = Seoul.
ID = 3. Name = Singapore.
Does any city above have direct flight to Taipei? N to stop. Please enter the city id \Rightarrow
```



If user entered 8 to add flight data, the program will ask whether the new city have direct flight to any other city and whether any other city have direct flight to the new city.

If user entered 9 to remove flight data, the program will ask whether the new city does not have direct flight to any other city and whether any other city does not have direct flight to the new city.

If user entered 10 to save to text file, the program will ask user to save to what file.

```
Please enter a file name to save city and attraction detail =>abc.txt
Save to abc.txt success.
Please enter a file name to save flight detail =>def.txt
Save to def.txt success.
Press any key to continue . . .
```

If user entered 11 to load from text file, the program will ask which text file to load from.

```
Please enter a file name to load city and attraction detail =>Name.txt
Load from Name.txt success.
Please enter a file name to load flight detail =>Flight.txt
Load from Flight.txt success.
Press any key to continue . . .
```

If user entered 12, the program will list out all of the city.

```
List of Cities

ID = 1. Name = Kuala Lumpur.
ID = 2. Name = Seoul.
ID = 3. Name = Singapore.
ID = 5. Name = Taipei.

Press any key to continue . . . .
```

If user entered 13, the program will list all attractions.

If user entered 14, the program will list all direct flights.

```
List of Direct Flights

Kuala Lumpur -> Kuala Lumpur
Kuala Lumpur -> Singapore
Seoul -> Singapore
Seoul -> Taipei
Singapore -> Kuala Lumpur
Singapore -> Seoul
Singapore -> Taipei
Taipei -> Seoul
Press any key to continue . . . _
```

If user entered 15 to change administrator password, the program will ask the old password. After that the program will ask 2 times for the new password.

```
C:\WINDOWS\system32\cmd.exe - a
                                                                                                                \times
Please key in the old password => 🕳
 C:\WINDOWS\system32\cmd.exe - a
                                                                                                           - □ ×
Please enter the new password => admin123
Please retype the new password => admin123_
```