School of Engineering, Computing and Built Environment

Department of Computing

**DIPLOMA IN COMPUTER STUDIES /
DIPLOMA IN GAMES TECHNOLOGY**

[DDA 1224
Data Structure & Algorithms]

[Tan Phit Huan]

ASSIGNMENT : [1]

[Restaurant Reservation System 1]
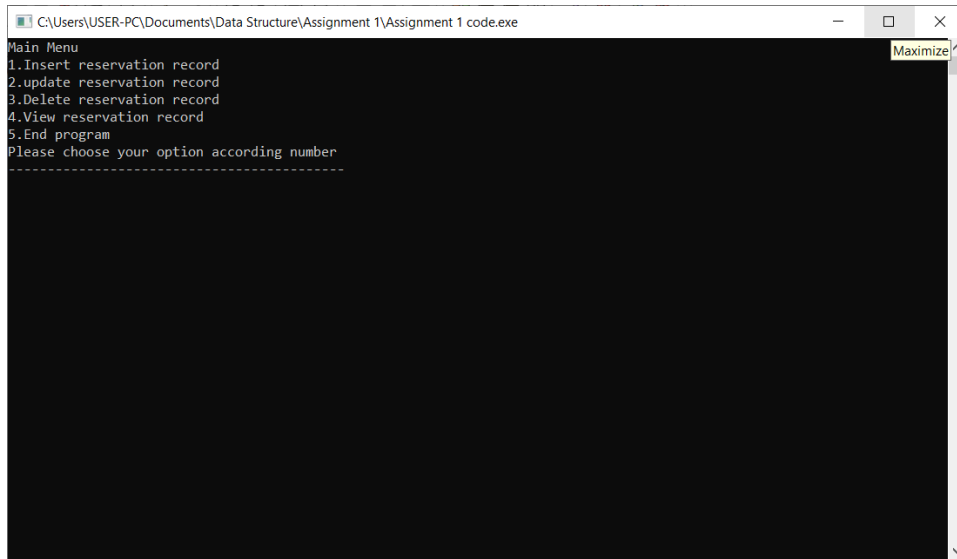
[0201421 Chan Chia Chin
0195028 Muhamad Fitri Hanif
0197189 Saravanan Kunaseelan]

DUE DATE   : [25 October 2019]
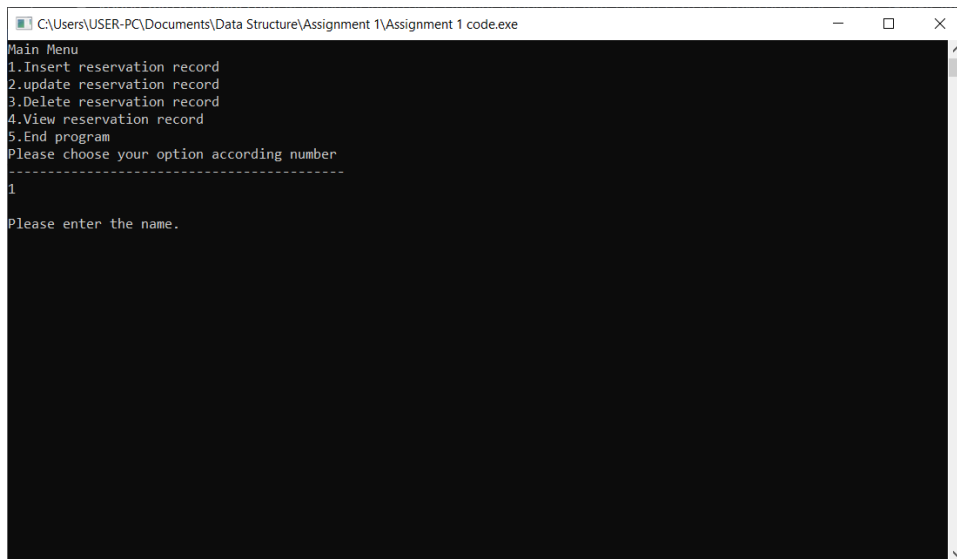
TOTAL MARKS   : [100 MARKS / 15%]

```
C:\Users\USER-PC\Documents\Data Structure\Assignment 1\Assignment 1 code.exe                          —     □     ×

Main Menu                                                                                       Maximize
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
-----------------------------------------
```

When gets the program running, a menu will appear at first. User need to choose the option they want according to the option number they want to do. For example, user need to key in number "1" to insert reservation records informations.

```
C:\Users\USER-PC\Documents\Data Structure\Assignment 1\Assignment 1 code.exe                          —     □     ×

Main Menu
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
-----------------------------------------
1

Please enter the name.
```

When choosen option number 1, the program will tell user to enter the informations for a reservation record.

```
C:\Users\USER-PC\Documents\Data Structure\Assignment 1\Assignment 1 code.exe        —    □    ×
Main Menu
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
-------------------------------------------
1

Please enter the name. This_is_a_name
Please enter the phone number. 010-xxxxxxx
Please enter the year for date. 2019
Please enter the month for date. 10
Please enter the day for date. 03
Please enter the time for date(eg:1200, 2315) 1000
Please enter the pax number. 2

Succeed !

Do you want to continue? y/n▮
```

After user enters all information required, the program will prompt "Succeed !" if successfully insert a new reservation record. And then, the program will prompt user if they want to continue the program or just leave.

```
C:\Users\USER-PC\Documents\Data Structure\Assignment 1\Assignment 1 code.exe        —    □    ×
Main Menu
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
-------------------------------------------
1

Please enter the name. Just_a_name
Please enter the phone number. 010-xxxxxxx
Please enter the year for date. 2019
Please enter the month for date. 10
Please enter the day for date. 3
Please enter the time for date(eg:1200, 2315) 1000
Please enter the pax number. 2

Succeed !

Do you want to continue? y/ny
Main Menu
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
-------------------------------------------
```

If the user key in Y or y, the program will continue and the main menu will pop out again.

In option 2, the program allows user to update the reservation data attributes by attributes. User need to key in the number of the record to choose record that wished to change and key in the option number for which attribute that wanted to change by user.

When choosen an attribute, the program will tell user to enter the new attribute value again to update.

```
C:\Users\USER-PC\Documents\Data Structure\Assignment 1\Assignment 1 code.exe      —    □    ✕
Please enter the name. This_is_just_a_name_
Do you want to continue? y/ny
Main Menu
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
----------------------------------------
3

Records:
Number :1
Name: Name
Phone number: 010-xxxxxxx
Date: 2019/10/2
Time(24hours): 1000
PaxNumber: 2
_____

Number :2
Name: This_is_just_a_name_
Phone number: 010-xxxxxxx
Date: 2019/10/3
Time(24hours): 0050
PaxNumber: 2
_____

Which data you want to delete ?
```

In option 3, the program enable user to delete a certain record, and user need to enter the number for record in order to delete the target record, once the number that user key in appears in the record index, then the program will tell the user successful deleted else will tell user nothing been deleted because out of range.

```
C:\Users\USER-PC\Documents\Data Structure\Assignment 1\Assignment 1 code.exe      —    □    ✕
Nothing deleted because Out of range.
Do you want to continue? y/ny
Main Menu
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
----------------------------------------
4

Records:
Number :1
Name: Name
Phone number: 010-xxxxxxx
Date: 2019/10/2
Time(24hours): 1000
PaxNumber: 2
_____

Number :2
Name: This_is_just_a_name_
Phone number: 010-xxxxxxx
Date: 2019/10/3
Time(24hours): 0050
PaxNumber: 2
_____

Do you want to continue? y/n
```

In option 4, the program will show the available records that was stored. If there is no any record, the program will show no record.

```
 C:\Users\USER-PC\Documents\Data Structure\Assignment 1\Assignment 1 code.exe                    —    □    ✕

Records:
Number :1
Name: Name
Phone number: 010-xxxxxxx
Date: 2019/10/2
Time(24hours): 1000
PaxNumber: 2
_____

Number :2
Name: This_is_just_a_name_
Phone number: 010-xxxxxxx
Date: 2019/10/3
Time(24hours): 0050
PaxNumber: 2
_____

Do you want to continue? y/ny
Main Menu
1.Insert reservation record
2.update reservation record
3.Delete reservation record
4.View reservation record
5.End program
Please choose your option according number
------------------------------------------
5

Press any key to continue . . .
```

And of course, option 5 will let user leave the program.