

## Programming Languages Project Template

Note: Remove the text written in red then replace them with your answers.

### 1. Student/Project Information:

Here you need to fill in information related to you and the selected project.

Student Name:	Mahmoud Rabea Ahmed Taha
Student's Section Number:	10
Selected project:	Number 1 : Management system for a café.
Project description:	The idea of the project is to manage the client's data of the cafe. Each client's data includes the id, time and name of client entered the cafe .The client's data for the cafe can be updated, deleted or inserted new client's data.

### 2. Code Information:

Here we want you to write what your code does in words. Therefore, for each a group of lines you must tell us what it outputs.

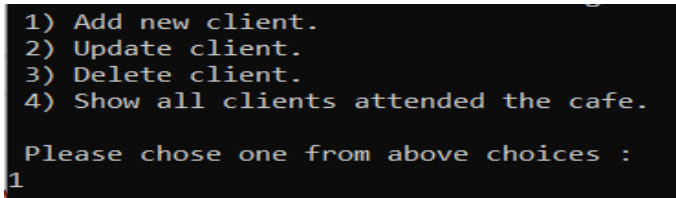
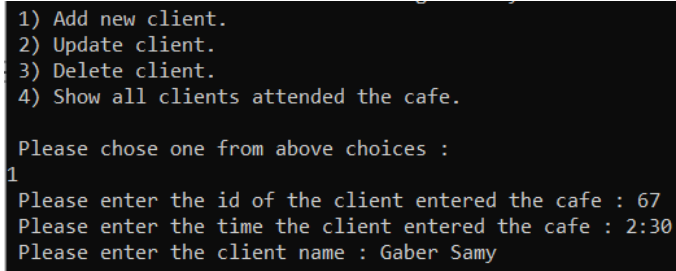
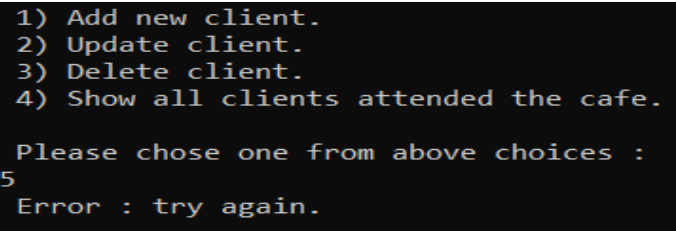
#	Line number (from-to)	Function name	Description
1	17-22	Main	This function print the greeting message and call the function (menu).
2	23-44	Menu	This function print the expected scenario to select one from (add-update-delete-show) , and switch among them , and then the the selected one call its function .
3	45-82	Adding_new_client	This function is used to add client's data to the system,and tests if the number of the added clients to the system is greater than 100 or not,and then ask the user to add another client or not.
4	83-125	Updating_client_data	This function is used to update client's data in the system , and tests if the entered id is found or not, and then ask the user to update another client or not.
5	126-175	Deleting_client	This function is used to delete client's data from the system , and then ask the user to delete another client or not.

6	176-193	showing_all_clients	This function is used to show client's data which found in the system, and so if the system is empty of clients it will print message error.
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### 3. Snapshots:

Here you need to upload screenshots taken by you when executing your project.

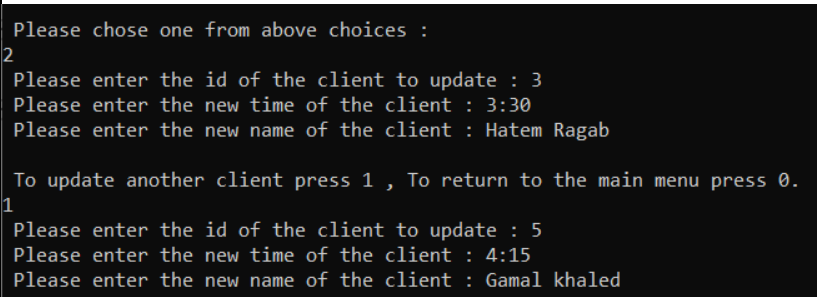
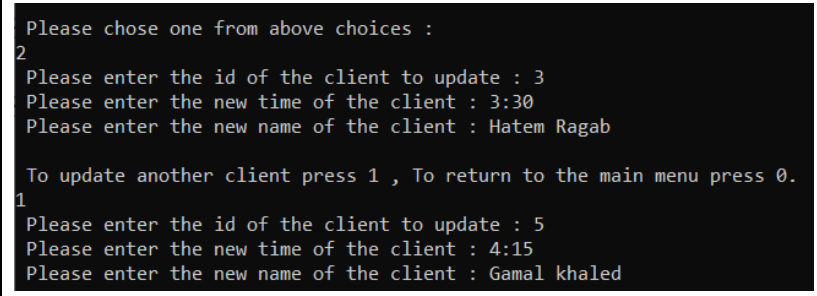
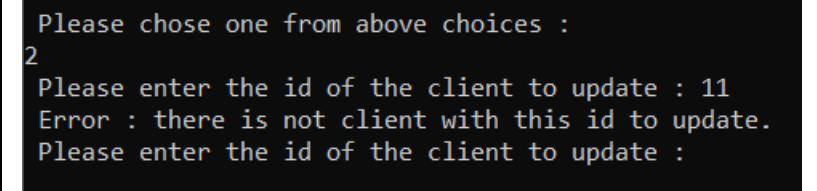
## 1) For menu() function :

#	Description	Screenshot
1	Input values	 <pre> 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : 1 </pre>
2	Output messages	 <pre> 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : 1 Please enter the id of the client entered the cafe : 67 Please enter the time the client entered the cafe : 2:30 Please enter the client name : Gaber Samy </pre>
3	Error checking output	 <pre> 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : 5 Error : try again. </pre>

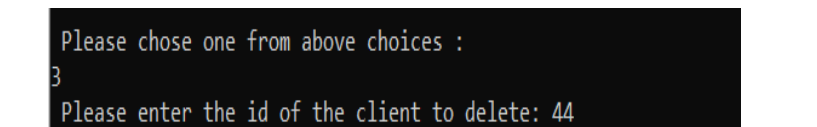
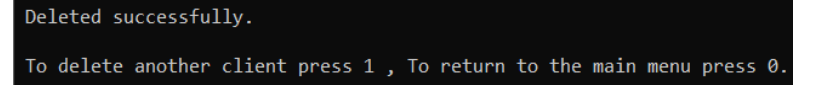
## 2) For Adding\_new\_client()function:

#	Description	Screenshot
1	Input values	<pre> Welcome to the management system for a cafe. 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : 1 Please enter the id of the client entered the cafe : 11 Please enter the time the client entered the cafe : 2:30 Please enter the client name : Mahmoud Rabea  To add another client press 1 , To return to the main menu press 0. 1 Please enter the id of the client entered the cafe : 22 Please enter the time the client entered the cafe : 5:45 Please enter the client name : Ramy Adel  To add another client press 1 , To return to the main menu press 0. </pre>
2	Output messages	<pre> Welcome to the management system for a cafe. 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : 1 Please enter the id of the client entered the cafe : 11 Please enter the time the client entered the cafe : 2:30 Please enter the client name : Mahmoud Rabea  To add another client press 1 , To return to the main menu press 0. 1 Please enter the id of the client entered the cafe : 22 Please enter the time the client entered the cafe : 5:45 Please enter the client name : Ramy Adel  To add another client press 1 , To return to the main menu press 0. </pre>
3	Error checking output	<pre> Please chose one from above choices : 1 Please enter the id of the client entered the cafe : 54 Please enter the time the client entered the cafe : 6:30 Please enter the client name : siam ahmed  To add another client press 1 , To return to the main menu press 0. 1 Please enter the id of the client entered the cafe : 54 Error:there is a client with this id. Please enter the id of the client entered the cafe :  To add another client press 1 , To return to the main menu press 0. 1 Error:you exceeded the maximum number of clients. 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : </pre>

### 3) For Updating\_client\_data() function

#	Description	Screenshot
1	Input values	 <pre> Please chose one from above choices : 2 Please enter the id of the client to update : 3 Please enter the new time of the client : 3:30 Please enter the new name of the client : Hatem Ragab  To update another client press 1 , To return to the main menu press 0. 1 Please enter the id of the client to update : 5 Please enter the new time of the client : 4:15 Please enter the new name of the client : Gamal khaled </pre>
2	Output messages	 <pre> Please chose one from above choices : 2 Please enter the id of the client to update : 3 Please enter the new time of the client : 3:30 Please enter the new name of the client : Hatem Ragab  To update another client press 1 , To return to the main menu press 0. 1 Please enter the id of the client to update : 5 Please enter the new time of the client : 4:15 Please enter the new name of the client : Gamal khaled </pre>
3	Error checking output	 <pre> Please chose one from above choices : 2 Please enter the id of the client to update : 11 Error : there is not client with this id to update. Please enter the id of the client to update : </pre>

### 4) For Deleting\_client() function :

#	Description	Screenshot
1	Input values	 <pre> Please chose one from above choices : 3 Please enter the id of the client to delete: 44 </pre>
2	Output messages	 <pre> Deleted successfully.  To delete another client press 1 , To return to the main menu press 0. </pre>

3	Error checking output	<pre> Please chose one from above choices : 3 Please enter the id of the client to delete: 22 Error : there is not client with this id to delete. Please enter the id of the client to delete: _  Please enter the id of the client to delete: 33 Deleted successfully.  To delete another client press 1 , To return to the main menu press 0. 1 Error : there is not any client to delete. </pre>
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## 5)showing\_all\_clients() function

#	Description	Screenshot
1	Input values	<pre> Please chose one from above choices : 4 The summary of clients visited the cafe today : 1) At 3:30 Mahmoud Rabea visited the cafe. 2) At 5:15 Ahmed Taha visited the cafe. 3) At 9:45 Yasser Ali visited the cafe. </pre>
2	Output messages	<pre> Please chose one from above choices : 4 The summary of clients visited the cafe today : 1) At 3:30 Mahmoud Rabea visited the cafe. 2) At 5:15 Ahmed Taha visited the cafe. 3) At 9:45 Yasser Ali visited the cafe. </pre>

3	Error checking output	<pre> Welcome to the management system for a cafe. 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : 4 Error : there are not clients to show  1 Please enter the id of the client to delete: 55 Deleted successfully.  To delete another client press 1 , To return to the main menu press 0. 0 1) Add new client. 2) Update client. 3) Delete client. 4) Show all clients attended the cafe.  Please chose one from above choices : 4 Error : there are not clients to show</pre>
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