Team Name:Codegaiya

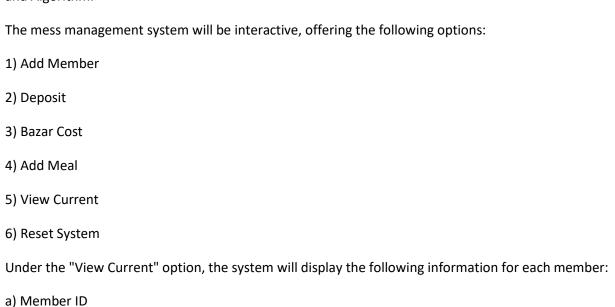**Team Member:**

1) Akif Khan-2021331101

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Purpose:

The aim of this project is to simplify our mess life through the implementation of a comprehensive mess management system. This system will handle various aspects involved in running a mess efficiently.

Description:

We Built a Project called Mess management System Using C++ Language and essential Data Structures and Algorithm.

The mess management system will be interactive, offering the following options:

1) Add Member

2) Deposit

3) Bazar Cost

4) Add Meal

5) View Current

6) Reset System

Under the "View Current" option, the system will display the following information for each member:

a) Member ID

b) Member Name

c) Total Meals

d) Current Balance

e) Bazar Cost

f) Meal Rate

Now let me open and run the code.

```
Mess Management System
1) Add Member
2) Deposit
3) Bazar Cost
4) Add Meal
5) View Current
6) Reset System
0) Exit
```

```
Enter your choice: _
```

Now I have to give the Enter our choice at first I will add member to the system .So let me add the member .Now let me choose 5th option to view if the members were added successfully.

```
Enter your choice: 5
Current Status
--------------------------------------------------------------------------------------
Member ID        Member Name    Total Meals    Current Balance       Bazar        Rate
--------------------------------------------------------------------------------------
10               Akif           0              tk0                   0            0
20               Aias           0              tk0                   0            0
--------------------------------------------------------------------------------------
Mess Management System
```

Yeah we added member successfully .Now we have to make deposit to our members account.

Let me add tk 1000 to the both Account .For this We Have to choose 2nd Option deposit.
After choosing deposit we have to enter the Member id and enter the amount I am going to add as deposit to the mess.

```
Enter your choice: 2
Enter Member ID: 10
Enter deposit amount: tk1000
Deposit successful. Updated balance: 1000
```

```
Enter your choice: 2
Enter Member ID: 20
Enter deposit amount: tk1000
Deposit successful. Updated balance: 1000
```

Now let us check if we added the Money successfully .For that we will go to the view Current Option

```
Enter your choice: 5
Current Status
--------------------------------------------------------------------------------------
Member ID        Member Name    Total Meals    Current Balance       Bazar        Rate
--------------------------------------------------------------------------------------
10               Akif           0              tk1000                0            0
20               Aias           0              tk1000                0            0
--------------------------------------------------------------------------------------
```

Yeah we added it successfully.

Now we are going to add Bazar cost to the system for that we have to choose option 3 called Bazar cost .Then we have to enter the member Id and add the amount that we spend for Bazar.

Bazar Cost added successfully.

```
Enter your choice: 3
Enter Member ID:
10
Enter cost of bazar: 500
Bazar cost added succesfully
Mess Management System
1) Add Member
2) Deposit
3) Bazar Cost
4) Add Meal
5) View Current
6) Reset System
0) Exit
Enter your choice: 3
Enter Member ID: 20
Enter cost of bazar: 750
Bazar cost added succesfully
```

Now we have to enter the number of meal we have eaten.

For that we have to go to the 4th option called add meal .Then We have to add the number of meal that was cooked for each member .We can Also add this day by day But for explanation purpose I am adding 10/15 meal to each id.

Now we also have to see whether the money spent in the meal has been deducted from the deposit or not?

For that we have to go to the View current Option.

```
Enter your choice: 5
Current Status
-----------------------------------------------------------------------------------------
Member ID       Member Name     Total Meals     Current Balance         Bazar           Rate
-----------------------------------------------------------------------------------------
10              Akif            10              tk500                   500             50
20              Aias            15              tk250                   750             50
-----------------------------------------------------------------------------------------
```

Yeah the amount has been deducted from the deposit.

If we want to start a new month then we can use the 6th option to reset system.

```
Enter your choice: 6
System reset successfully. All information deleted.
```

Now all the information has been deleted.