ASSIGNMENT TASK

After the successful deployment of **"Parking Fare Calculation System",** your company has decided to increase your bonus; When they tried to update your bonus ratio they seen that due to a single code file and hard coded values, it is very complex to update the code. You're an EXCELLENT programmer so; they requested you to rebuild their old payroll system using

"N-Tier Architecture"

Because, this is client-server architecture, and in this architecture data management (Data Access Layer) and application processing (Business Logic Layer) is done into separate layers and thus in future editing in code will be relatively easy. They are using **DtatBase for Save the Data**, so you will also use this.

For your ease they've shared a document with you, which contain following functionalities:

1- User Panel :

   a. User (UID, User Name, Password), There can be more than one users.
   b. Users should be logged in to use the system, other than admin no one can change password of users.
   c. User's password should be in encrypted form in backend.

   Password   : ABC123
   Encrypted Password: A3B2C1

   d. Only Registered users can use employee management.

2- You have to implement module of Employee Management:

   a. Add New Employee (EID (Unique), Name , Salary , Bonus Ratio, Tax , Designation)
   b. Edit Record on the basis of ID
   c. Delete Record on the basis of ID
   d. Search on the Basis of ID

   Instructions:

   For Manager (Designation)   : Tax 15%, Bonus 10%
   For Developers (Designation): Tax 12%, Bonus 50%
   For HR   (Designation)   : Tax 10%, Bonus 20%

Note:

1- If a user searches a record and he want to edit it there, handle this option also.
2- In edit menu , if user does not enter any value , do not change previous , Save it as it is.
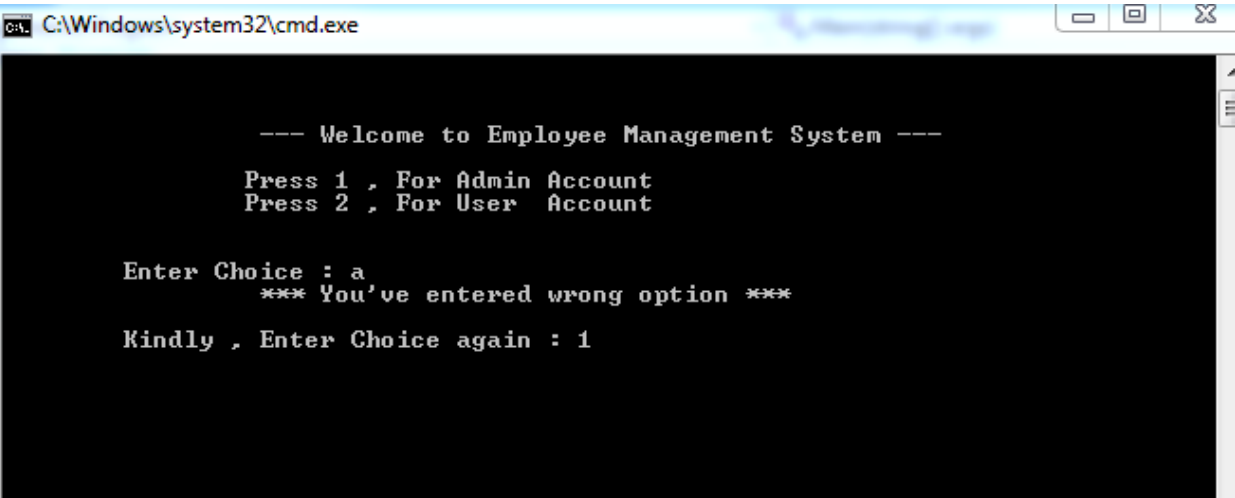
3- ADMIN Panel :

a. ADMIN (AID , User Name , Password)
b. Admin can change password of users
c. Can manage Employee management

Note: There will be three Tables

- **Admin**
- **users**
- **employee**

SAMPLE SCREEN SHOTS:

This is Just one possible flow:

```
C:\Windows\system32\cmd.exe

               --- Welcome to Employee Management System ---

                     ------ ADMIN PANEL ------

          Enter UserName : Ansar
          Enter Password : 125487


                     ------ Loged In ------


          Press 1 , For Employee Management
          Press 2 , To Change Password Of Users

          Enter Choice : 2
```



```
C:\Windows\system32\cmd.exe

               --- Welcome to Employee Management System ---

                     ------ Change User Password ------

          Enter UID: 7
          Enter Password       : abcdef
          Enter Password again : abcdef


                     ------ Password Changed Successfully ------

          Press * , For Employee Management
```



```
C:\Windows\system32\cmd.exe

               --- Welcome to Employee Management System ---

                     ------ Employee Management ------

           Enter User Name  :Ali
           Enter Password   :ertyh
                     ------ Logged In ------
          Press 1 , To Add Employee
          Press 2 , To Edit Employee Information By ID
          Press 3 , To Delete Employee By ID
          Press 4 , To Search Employee By ID

          Enter Choice  : 1
```

```
--- Welcome to Employee Management System ---

------ Employee Management ------

Enter Name          : Salman
Enter Designation   : Manager
Enter Salary        :18000
Enter Bonus Ratio   :15
Enter Tax Ratio     :10

Press A to save or C to Cancel


Enter Choice   : A

          ** Saved **

Press * for Main Menu or * to Continue


Enter Choice   : *
```

------ ☺ ☺ **Best of Luck** ☺ ☺ ------