

SAMSUNG

Samsung Innovation Campus

| Coding and Programming

Together for Tomorrow!
Enabling People

Education for Future Generations

Chapter 2.

Project

Coding and Programming

Project

- | Create SIC bank management system, In the home page the user should choose if he/she already have an account and will login using his/her id and password or he/she would create a new account, if the user entered false information a warning message should appear, and he/she should be allowed to reenter it.

```
*****Welcome to SIC bank management system*****
If you already have an account please enter login
If you don't have an account Enter register
register
*****Welcome to sign up page*****
Please enter your name Mohamed
Please Enter your password 1234
Please enter your phone number 810
Please enter your mail mohamed@gmail.com
Please enter your gender Male
Please enter your age 23
Please enter your city Alexandria
Sign up successful, your id is 1
```

```
*****Welcome to SIC bank management system*****
If you already have an account please enter login
If you don't have an account Enter register
login
*****Welcome to login page*****
Please Enter your id 1
Please Enter your password 1234
Welcome back Mohamed
```

Project

- After entering the system, The user should be able to see a menu of what he wants to do: deposit, transfer, check balance, withdraw or exit. If the user entered wrong input a warning message should appear, and he should be allowed to re-enter his choice.

```
*****Welcome back Mohamed*****  
Please enter your choice  
[0]Deposit  
[1]Withdraw  
[2]Transfer  
[3]Check balance & personal info  
[4]Exit  
1
```

Project

- | In the deposit page the user should be asked the amount he want to deposit and the currency in which he will deposit whether USD, SAR or EGP and it should be converted to EGP in his bank account.

```
Please enter the amount you want to deposit and the currency in this format '1 EGP'  
20 USD  
20 USD was deposited successfully!!  
Your balance is 600 EGP
```

- | In the withdraw page the user should be asked the amount he want to withdraw and the currency in which he will withdraw whether USD, SAR or EGP and it should be converted to EGP in his bank account.

```
Please enter the amount you want to withdraw and the currency in this format '1 EGP'  
30 USD  
30 USD was withdrawn successfully!!  
Your balance is 300 EGP
```

Project

- | In the transfer page the user should enter the amount he want to transfer and the id of the account he wants to transfer money to.
- | The system should check if this amount actually exists in his account and the second account actually exists in the system.

```
Please enter the amount you want to transfer
200
Please enter the ID of the account you want to transfer money to
2
200 EGP was transferred to Ahmed successfully!!
Your balance is 100 EGP
```

Project

| If the user wants to check his balance or his personal information, he should be able to see it.

```
ID: 1
Name: Mohamed
Phone number: 010
Mail: mohamed@gmail.com
Gender: Male
Age: 23
City: Giza
Balance: 200 EGP
```

Project Hints

- | You can use a dictionary to store info of each user.
- | You can use a list to store dictionaries of all users and the user ID can be represented as the index of the user's dictionary in the list.
- | While converting from 1 currency to another take in consideration that 1 USD = 30 EGP and 1 SAR = 9 EGP.
- | You can store the info of each user in a JSON file as a bonus task.
- | After entering the system, you can use a while loop to iterate multiple times on the features which the user can benefit from, The system should exit if and only if the user chooses to exit.



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