

Core Python Assessment Test

- Write a program to demonstrate the bank management Console based application
- Prepare demonstration of Python bank management under software development principles and follow coding protocols
- To implement application using of control statements as well as collection concept
- In this application 2 modules involved (Banker , Customer)
- Execution of the code following menu must be displayed.
- Make sure each business logic is denoted with appropriate comments and make your code interactive and represent clean and clear output on your console screen.

```
WELCOME TO PYTHON BANK MANAGEMENT SYSTEM

Select your role

1) Banker
2) Customer
3) Exit

choose your role :
```

- when user select option 1 then accept following details from user

```
Welcome to Banker's App

Operations Menu

1) Add Customer
2) View Customer
3) Search Customer
4) View All Customer
5) Total Amounts in Bank
```

- Banker can add customer , view customer , search customer , view all customer and total amounts in bank

- Use Functions concepts and modules – make programs more readable
- Store all transactions in dictionary

```
Enter operation which you want to perform : 1
Enter account no : 101
Enter customer name : Anjali Patel
Enter opening balance : 2000
Do you want to perform more operations press 'y' for yes and press 'n' for no : y
```

```
Operations Menu

1) Add Customer
2) View Customer
3) Search Customer
4) View All Customer
5) Total Amounts in Bank
```

```
choose your role : 1
Welcome to Banker's App
```

```
Operations Menu

1) Add Customer
2) View Customer
3) Search Customer
4) View All Customer
5) Total Amounts in Bank
```

```
Enter operation which you want to perform : █
```

View All Customers:

```
Operations Menu

1) Add Customer
2) View Customer
3) Search Customer
4) View All Customer
5) Total Amounts in Bank
```

```
Enter operation which you want to perform : 2
{101: {'name': 'Anjali Patel', 'balance': 2000, 'Opening Date': '2022-07-27 22:26:51.381690'}, 102: {'name': 'Priya Patel', 'balance': 3500, 'Opening Date': '2022-07-27 22:26:51.381690'}}
```

Customer's Menu as follows:

```
Welcome to Customer's App
```

```
Operations Menu

1) Withdraw Amount
2) Deposit Amount
3) View Balance
```

- **Make sure this code implements using file handling concept**
- **create separate file for all business logics and make them reusable - use modules concepts for implements above logic**

After each operations always display menu:

- **Make sure validation proper given – each options - display appropriate message if user enter invalid input and accept values again and - use looping concepts and string inbuilt methods concepts in this logic implementation**
- **Make sure code prevent from unexpected exception return to the previous menu and accept all details again.**

After entered notes output must be like following :

- **Generate a log file and store all transaction details in that log file.**
- **After each selection menu must be displayed asking for user input**
- **After execution of each option confirmation message must be displayed.**
- **Program should not be terminated till the user Exit it**
- **Developer needs to test his product before launching it into the market**
- **After completion this project upload it on GitHub**
 - **Upload all features in develop branch after completion all features merge it with main branch**