

# **Programming Fundamentals**



Lab Manual 14

Instructor:	CLO:
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<b>Learning Objectives:</b>	
<ul> <li>Building in memory business application with</li> </ul>	
the limited number of records	Name:

# **Guidelines/Instructions:**

- Create meaningful variable names. Add comments for readability. Indent each line of your code.
- Plagiarism/Cheating is highly discouraged by assigning 0 to both who tried and one who shared his/her code.

# **Project Details:**

You are required to develop a Bank Management system that allows to create a new account and maintain the record deposit and withdraw facilities with advance feature of loan management (Transaction and installment record). Use struct and file handling concepts

## Task 1:

#### **Create New Account:**

Write a program through which user can create a new account for bank transaction. The program should proceed after taking valid input from user. After successful login, user can login their account through valid email and password.

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# Welcome to Bank

- 1. Create a new account
- 2. Login Account
- 3. Loan Management
- 0. Close the program

Enter user input: 1

# Task 2:

# **Deposit Amount**

User can now deposit money in their bank account after creation of new account. Choose 2 for login and then proceed next.

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Bank Management System

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Enter valid credential for login

Enter Email Address:

Enter Password:

User login successfully!

Press any key to proceed

- 1- Deposit Money
- 2- Withdraw Money
- 3- View all transaction
- 4- View account details
- 5- Logout the current user

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Bank Management System

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Enter the required information to deposit amount:

**Enter CNIC:** 

**Enter Contact Number:** 

Enter your Password:

Enter the amount to deposit (in digits)

Amount has been added to your account

#### **Task 3:**

## Withdraw Amount

User can now withdraw money from your bank account after login. Enter the amount less than or equal to current amount in account details.

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Enter the required information to withdraw amount:

Enter CNIC:

**Enter Contact Number:** 

Enter your Password:

Enter the amount to withdraw (should be less than current amount in bank account):

Collect your money!

## Task 4:

#### View all Transaction

User can now view previous history of their bank account as

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Bank Management System

Enter the required information to view account history

S.No. **Email** Transaction-Type(W/D)Data and Time

W 1234567890234 22/1/2021-9:30AM 1. abc@gmail.com

#### **Task 5:**

## View account details

User can now view their account details

************	********	
Bank Management Syste	em	
*************	*******	
Account Profile is	Current Amount:	50,000 Pkr
Full Name:		
CNIC:		
Email-Address:		
Contact-Number:		
Password:		
Date-of-Birth:		

## Task 6:

## **Request for Loan:**

User can request for loan and maintain all transaction for loan. System will generate a random 8 character length loan-id to keep track of loan transaction on valid credential of user. (Format for loan id is: XXX000X0). Monthly amount should be calculated as (requested amount / total month)

amount should be calculated as (requested amount / total month)

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Bank Management System

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Welcome to loan Management

Enter the required information

Enter your Email Address:

Enter Valid CNIC:

Enter Password:

Your Loan id is: XXX000X0

Press any key to proceed

Bank Management System ************************************	******	
Enter the required information for loan request		
Enter CNIC:		
Enter Password:		
Enter Loan ID:		
Enter requested amount: Enter installment period (in month):		
Your Monthly will be:		
Did you want to proceed (Y/N)?		
Your request will be verified soon. Check loan profile		
**************	********	
Bank Management System		
*****************	********	
User Loan Profile Enter Your CNIC:		
Enter Your Loan ID:		
Enter Your Password:		
***************	********	
Bank Management System		
***************	********	
Full Name		
CNIC		
Loan ID		
Requested Amount:	Monthly Installment	
Total Time Period (in Month)	Request Date-Time	
File Structures		
firstName;lastName,cnic,email,contactnumber,password,ad	dress,dob	
account.txt		
cnic,transaction-type,amount,date-time		
transaction.txt		
cnic,loanid,requestedamount,monthlyinstallment,request-date-time,time-period		

loan.txt

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