

DA 514 Python Programming Laboratory

Practice Assignment

Date: August 24, 2025

Write a Python code to implement a class `Bank` with the following specifications:

Class Variables

1. `Bank_Name` (String): Assigned with Bank Name
2. `IFCS_code` (String): Assigned with IFCS code of the Bank
3. `Number_of_Bank_accounts` (Integer): Hold the count of accounts in the bank
4. `Bank_customers` (List): Hold current customers of the bank

Instance Variables

1. `Customer_name` (String): Hold the name of the customer
2. `Account_number` (String): Hold the account number of the customer
3. `Balance` (Float): Hold the balance of that account

Class Methods

1. `Display_bank_details()`: This method will display all details of bank, `Bank_Name`, `IFCS_code`, and `Number_of_Bank_accounts` along with `Customer_name`.

Instance Methods

1. `Create_account(Customer_name, Initial_deposit)`: This method will take the customer name and initial deposit as arguments and create an account in the bank with this initial balance. Account number is given by the bank. Whenever an account is created, keep this object in the `Bank_customers` along with incrementing the `Number_of_Bank_accounts` by one.
2. `Deposit(Account_number, Deposit_amount)`: This method will take an account number and a deposit amount as parameters and increment the balance of that account with the amount.

Execution Sequence

Follow this sequence, and do the needful for proper working of the flow:

- Display bank details
- Create an account for a customer in the bank
- Make a deposit of an amount against this customer
- Display this customer's details with name, account number, and available balance