Mini Project: Banking Application

Objective:

Create a simple banking application using Python with the following structure and functionality.

banking_app/

l	initpy
	bankcore.py
l :	accounts.py

Instructions:

|__ main.py

1. Create a Python Package:

• Name your package: banking_app

2. Modules in the Package:

Your package should have at least two modules:

- ♦ bankcore
- ♦ accounts
- ♦ main

3. Module Details & Requirements:

Module 1. bankcore module

Implement the following:

♦ Variable: branch_id = 2057♦ Variable: customer_id = ??

How customer_id will be generated?

- customer_id format: <brach_id>-<user number>
- example1: 2057-1 here 2057 represent brach_id and 1 represent user number
- example2: 2057-7 here 2057 represent brach_id and 7 represent user number

- ♦ **Users_Info:** User info will be stored in dictionary: customer_id, name, password
- ♦ Function: create_account(name, id, password) Should register a new user.
- ◆ Function: login(customer_id, password)
 - If credentials match, allow user to proceed.
 - If not, print "Invalid login".

Module 2. accounts module

Implement the following:

- ♦ balance_record: Dictionary to store users balance contains: customer_id, and balance.
- ♦ **Function:** check_balance(customer_id) Returns user's current balance.
- ♦ **Function:** deposit(customer_id, amount) Adds amount to user's balance.
- ♦ Function: withdraw(customer_id, amount)
- Deducts amount from balance if enough funds, else print "Insufficient balance".

Module 3. main module

Implement the following

- 1. Import both modules, i.e., bankcore, accounts
- 2. Add main function:

Show a welcome message first >> Welcome to ABC Bank

Select 1 or 2:

- 1. Login to the account.
- 2. Create an account.
- 3. Try Deposit and withdraw money.
- 4. Try Check balance.
- 5. call relevant functions from both modules (i.e., bankcore, accounts) where needed.

Tips:

- ♦ Properly manage user authentication.
- ♦ Handle possible errors (e.g. invalid login, insufficient balance, etc.)

Deliverables → banking_app folder with two modules: bankcore.py, accounts.py and main.py.