Assignment 3 Banking System

Task1(With outputs):

```
◆ Control_structure(1-6)py X

◆ Control_structure(1-6)py X

* *Control_structure(1-6)py X

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```

Task2:

Output:

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Task3(With output):

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Task4:

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Task5:

Task6:

Task7:

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Input Methods:

Output:

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```

Task(8,9):

Inputs for above methods:

```
## Create # mayings account | Savings account (account number 2001, interest rate=0.05)
## savings account deposit(1000.0)
## savings account.calculate interest()
## Create # current account
## current account = CurrentAccount(account_number=3001, overdraft_ilmit=500.0)
## current account.deposit(300.0)
## current account.deposit(300.0)
```

Output:

Implementation of bank class & full operations:

Outputs:

```
Price Time County Time County
```

```
Backing System Menou:

1. Create Savings Account

2. Create Current Account

3. Exit

2. Create Current Account

3. Exit

Enter your choice (1-3): 2

Enter account master: 1000

Account Operations Meno;

1. Deposit

4. Exit

Enter the deposit amount: 1000

Deposit 1010-0-0

Account Operations Meno;

1. Calculate Interest (for Savings Account)

4. Exit

Enter the deposit amount: 1000

Deposited 1000.0 into account 3002. New balance: 1000.0

Account Operations Meno:

1. Deposit

2. Withdraw

3. Calculate Interest (for Savings Account)

4. Exit

Enter your choice (1-4): A

Exit Inter your choice (1-4): A

Exit Inter your choice (1-4): A

Exiting Account Operations.

Backing, System Meno:

1. Create Current Account

2. Create Current Account

2. First

Enter your choice (1-3): 3

Exiting the Backing System (1-3): 3

Exiting the Backing System (1-3): 3

Exiting the Backing System.

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Task(10,11,12,13):

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seps / management balance(self, account number):

for account in tunk.accounts:

if account.account number -- account number:

return account.balance return number, account, number:

for account in tunk.accounts:

if account.account number, account.

if account.account.maber -- account, number:

account.balance -- account number:

raise InvalidAccountException("Account number:

account.balance -- account.

for account in tunk.accounts:

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balance = lout(imput('inter inter inter ')

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Outputs:

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Hanking Synthem Penns:

1. Crosted Account:
2. Deposit:
3. Mithdraw
4. Transfer
5. Get. Account Balance
6. Get. Account Balance
10. Get. Account B
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```
Error: One or both accounts not found.

Banking System Menu:
1. Greate Account
2. Supposit
3. NIDerine
6. Get Account Balance
6. Get Account Balance
7. Exit
1. Inter year choice (1-7): 5
10ther Account Balance
7. Get Account Balance
8. Self Account Balance
9. Get Account Balance
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Task 14:

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doubleway X

comp > dutabasey >
    import synel.commentor
    from datatine import dutatine
    times import datatine
    pass

    def_init_(self, customer, id, first_name, last_name, email, phone_namber, address):
    self.customer id = customer id
    self.customer id = customer id
    self.customer id = customer id
    self.customer id = customer
    self.address = address

    def_init_(self, customer, account type, balance-0.0):
    Account_last_account_number = account_type
    self.dustomer = customer
    self.account_type = account_type
    self.balance = balance
    self.balance = balance
    self.balance = balance
    self.balance = balance
}
```

```
# distributory X

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Oppn > * denthorary > ...

In return [self-sup_transaction(row) for row in transactions]

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In return [self-sup_transaction(row) for row in transactions]

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In return (e) record force)

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In return (e) record force forc
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Inputs:

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oogs 2 🍁 database py 2.
          W Crewte an instance of BankhepositoryJmpl and test the methods hank\_repository + HankhepositoryJmpl()
          Customer = Customer(1, "John", "Doe", "john.dnegezample.com", "1234567898", "12349 Main 51")
Customeri = Customer(2, "John", "Doel", "john.dnegezample.com", "1234967898", "12349 Main 51")
          # Create a SavingsAccount
savings account number = bunk repository.create_account(customer, "Sovings", 1808.0)
print("Savings Account Number:", savings account number)
          # Create a CorontAccount.

current_account_number = bank_repository.create_account(customers, "Current", 2008.8)
          print("Current Account Number:", current account number)
          bank repository.deposit(1, 500)
bank_repository.withdraw(1, 100)
          savings account details - bank repository.get account details(1) current account details - bank repository.get account details(1)
          print("Savings Account Details:", savings account details)
print("Current Account Details:", current_account_details)
         savings halance - bank repository.get_account balance(i)
current_balance - bank_repository.get_account_balance(i)
          print("Savings Account Balances", savings balance)
#print("Current Account Balances", current balance
       e iist all accounts
accounts list - bank repository.list_accounts()
       print("All Accounts:", accounts list)
       # talculate interest for savings according to the bank repository.calculate_interest()
       transactions = bank_repository.get_transactions(1, detetime(2023, 1, 1), datetime.now()) print("Savings Account Transactions:", transactions)
```

outputs:

Database Changes:

