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credentials = {}
users_db = {}
passbook = {}
nested_t = {}
import datetime
print("~" * 7, "Welcome to WsCube Bank", "~" * 7)
print("\nHow can we help you today?")
while True:
   print("""\n
1. Open an Account
2. View Account Details
Perform Transactins (Withdraw/Deposite/Transfer)
4. Exit
\n""")
```

```
choice = int(input("enter your choice between 1 to 4: "))
if choice == 1:
    fname = input("Enter First Name: ")
    lname = input("Enter Last Name: ")
    pancard = input("Enter Pan card Number: ")
    if pancard in users db.keys():
        print("Your account already exist!")
        print("Try Again")
        break
    import random
    account number = "11112222" #constant code for the branch
    for i in range(1,4):
        a = random.randint(0,9)
        account number = account number + str(a)
    account type = input("Which type of account would you like to open (Current/Savings): ")
    balance = int(input("How much amount do you wish to deposit? "))
```

```
username = fname
for i in range(2):
    a = random.randint(0,9)
    username = username + str(a)
password = ""
for i in range(4):
    a = random.randint(0,9)
    password = password + str(a)
print("Your Assigned username is", username)
print("Your Assigned password is", password)
print("Accout Number: ", account number)
print("Account Type: ", account type)
print("Your Initial balance is Rs.", balance)
print()
credentials[username] = password
users_db[pancard] = [fname, lname, account_number, account_type, balance]
```

```
elif choice == 2:
   un = input("enter username: ")
    ps = input("enter password: ")
    pc = input("enter pancard: ")
    if un in credentials.keys() and ps == credentials[un] and pc in users db.keys():
        print("Your Account Details are: ")
        print("Account Number: ",users db[pc][2])
        print("Account Holders Name: ", users db[pc][0], users db[pc][1])
        print("Account Type: ",users db[pc][-2])
        print("Total Balance is: ",users db[pc][-1])
    else:
        print("This account does not exists try again!")
```

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elif choice == 3:
   un = input("enter username: ")
   ps = input("enter password: ")
    pc = input("enter pancard: ")
   if un in credentials.keys() and ps == credentials[un] and pc in users_db.keys():
       print("""

    Deposit

2. Withdraw
Transfer""")
       t_type = input("enter transaction type: ").capitalize()
       if t type == "Deposit":
           t_amount = float(input("enter amount you wish to deposit: "))
            users db[pancard][-1] += t amount
            timestamp = datetime.datetime.now()
            print("your current balance is: ",users_db[pancard][-1])
        elif t type == "Withdraw":
           t_amount = float(input("Enter amount you wish to withdraw: "))
            if t amount > users db[pancard][-1]:
                print("you cannot withdraw more than the deposited amount")
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print("Remaining balance is", users db[pancard][-1])
elif t type == "Transfer":
   r pancard = input("enter receiver's pancard: ")
   t amount = float(input("enter amount you want to transfer: "))
   users db[pancard][-1] -= t amount
   timestamp = datetime.datetime.now()
   print("Remaining balance is", users_db[pancard][-1])
   if r pancard in users db.key():
       users db[pc][-1] += t_amount
nested t[timestamp] = [t type, t amount, users db[pancard][-1]]
passbook[pancard] = nested t
```

else:

users db[pancard][-1] -= t amount

timestamp = datetime.datetime.now()

```
elif choice == 4:
   un = input("enter username: ")
   ps = input("enter password: ")
   pc = input("enter pancard: ")
    if un in credentials.keys() and ps == credentials[un] and pc in users_db.keys():
       print("
                     Timestamp
                                                    Amount
                                                             Balance")
                                            Type
       for i,j in passbook.items():
           for k,l in j.items():
               print(k,l, end = "\n")
```

~~~~~ Welcome to WsCube Bank ~~~~~~

How can we help you today?

- 1. Open an Account
- 2. View Account Details
- Perform Transactins (Withdraw/Deposite/Transfer)
- 4. Exit

enter your choice between 1 to 4: 1

Enter First Name: Saransh

Enter Last Name: Garg

Enter Pan card Number: 736549723645

Which type of account would you like to open (Current/Savings): Current

How much amount do you wish to deposit? 10000

Your Assigned username is Saransh93

Your Assigned password is 4841

Accout Number: 11112222034

Account Type: Current

Your Initial balance is Rs. 10000

```
2. View Account Details
Perform Transactins (Withdraw/Deposite/Transfer)
4. Exit
enter your choice between 1 to 4: 2
enter username: Saransh93
enter password: 4841
enter pancard: 736549723645
Your Account Details are:
Account Number: 11112222034
Account Holders Name: Saransh Garg
Account Type: Current
Total Balance is: 10000

    Open an Account

2. View Account Details
Perform Transactins (Withdraw/Deposite/Transfer)
```

1. Open an Account

4. Exit

```
enter your choice between 1 to 4: 3
enter username: Saransh93
enter password: 4841
enter pancard: 736549723645
   1. Deposit
   2. Withdraw
   Transfer
enter transaction type: Deposit
enter amount you wish to deposit: 5000
your current balance is: 15000.0
1. Open an Account
2. View Account Details
Perform Transactins (Withdraw/Deposite/Transfer)
4. Exit
```

```
enter your choice between 1 to 4: 3
enter username: Saransh93
enter password: 4841
enter pancard: 736549723645

    Deposit

   2. Withdraw
    3. Transfer
enter transaction type: Withdraw
Enter amount you wish to withdraw: 5500
Remaining balance is 9500.0
1. Open an Account
2. View Account Details
Perform Transactins (Withdraw/Deposite/Transfer)
4. Exit
```

```
enter your choice between 1 to 4: 4
enter username: Saransh93
enter password: 4841
enter pancard: 736549723645
      Timestamp
                             Type
                                    Amount Balance
2025-01-12 16:51:23.078327 ['Deposit', 5000.0, 15000.0]
2025-01-12 16:52:14.415511 ['Withdraw', 5500.0, 9500.0]
```