```python
# ATM OOP
class ATM():
    def __init__(self, name, balance, PIN):
        self.name = name
        self.balance = balance
        self.PIN = PIN

    def deposit(self, money):
        self.balance += money
        print("Deposit Successful")
        print(f"You've successfully deposited {money} Baht")
        print(f"New balance: {self.balance} Baht")

    def withdraw(self, money):
        if money > self.balance:
            print(f"Your balance: {self.balance} Baht")
            print("Your account has insufficient funds for this transaction.")
        else:
            self.balance -= money
            print("Withdrawal Successful")
            print(f"You've successfully withdrawn {money} Baht")
            print(f"New balance: {self.balance} Baht")

    def fast_cash(self):
        print('\nPlease select the withdrawal amount')
        print("(1) 300 Baht\n(2) 500 Baht\n(3) 1000 Baht\n(4) 3000 Baht\n(5) 5000
        num = int(input("Enter a number (1-5): "))
        fcash = 0
        if num == 1:
            fcash = 300
            if fcash > self.balance:
                print(f"\nYour balance: {self.balance} Baht")
                print("Your account has insufficient funds for this transaction."
            else:
                self.balance -= fcash
                print("\nWithdrawal successful")
                print(f"You've successfully withdrawn {fcash} Baht")
                print(f"New balance: {self.balance} Baht")
        elif num == 2:
            fcash = 500
            if fcash > self.balance:
                print(f"\nYour balance: {self.balance} Baht")
                print("Your account has insufficient funds for this transaction."
            else:
                self.balance -= fcash
                print("\nWithdrawal successful")
                print(f"You've successfully withdrawn {fcash} Baht")
                print(f"New balance: {self.balance} Baht")
        elif num == 3:
            fcash = 1000
            if fcash > self.balance:
                print(f"\nYour balance: {self.balance} Baht")
                print("Your account has insufficient funds for this transaction."
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            else:
                self.balance -= fcash
                print("\nWithdrawal successful")
                print(f"You've successfully withdrawn {fcash} Baht")
                print(f"New balance: {self.balance} Baht")
        elif num == 4:
            fcash = 3000
            if fcash > self.balance:
                print(f"\nYour balance: {self.balance} Baht")
                print("Your account has insufficient funds for this transaction.")
            else:
                self.balance -= fcash
                print("\nWithdrawal successful")
                print(f"You've successfully withdrawn {fcash} Baht")
                print(f"New balance: {self.balance} Baht")
        elif num == 5:
            fcash = 5000
            if fcash > self.balance:
                print(f"\nYour balance: {self.balance} Baht")
                print("Your account has insufficient funds for this transaction.")
            else:
                self.balance -= fcash
                print("\nWithdrawal successful")
                print(f"You've successfully withdrawn {fcash} Baht")
                print(f"New balance: {self.balance} Baht")
        else:
            print(f'\n{num} is an invalid number. Please try again...')

    def transfer(self, receiver_acc_name, money):
        if money > self.balance:
            print(f"Your balance: {self.balance} Baht")
            print("Your account has insufficient funds for this transaction.")
        else:
            self.balance -= money
            print("Transfer Successful")
            print(f"You've successfully transferred {money} Baht to {receiver_acc
            print(f"New balance: {self.balance} Baht")

    def change_PIN(self):
        new_PIN = input("\nEnter new PIN: ")
        reenter_new_PIN = input("Reenter new PIN: ")
        if new_PIN == reenter_new_PIN:
            self.PIN = new_PIN
            print("\nYour PIN has been changed.")
        else:
            print("\nNew PIN does not match.")
            print("Failed to change PIN.")
```

```python
# OOP inheritance
class KBANK(ATM):
    def __init__(self, name, balance, PIN):
        super().__init__(name, balance, PIN)

    def change_acc_name(self, new_acc_name):
        self.name = new_acc_name
        print(f"New account name: {self.name}")
        print("Your account name has been changed.")

    def balance_inquiry(self):
        print(f"\nAccount: {self.name}, Balance: {self.balance} Baht")
```

```python
# open an account
print("Welcome to KBANK")
print("Open an account")
name = input("Please enter your account name: ")
balance = int(input("Please enter your opening balance: "))
temp_PIN = '123456'
customer = KBANK(name, balance, temp_PIN)
print("\nSuccessfully open an account")
print("Your temporary PIN will be 123456")
```

```
Welcome to KBANK
Open an account
Please enter your account name:  Natthaphong
Please enter your opening balance:  500

Successfully open an account
Your temporary PIN will be 123456
```

```python
# at ATM
print("Welcome!")
print("Please insert your card\n")

# PIN validation -> 3 attempts
retries = 3
while retries > 0:
    entered_PIN = input("Please enter PIN: ")
    if entered_PIN != customer.PIN:
        print("Incorrect PIN")
        retries -= 1
        if retries > 0:
            print(f"You have {retries} retries left.\n")
        else:
            print("The card will be retained as it considered a stolen card or atte
            break
    else:
        retries = 0
        # select transaction
        print("Please select transaction")
        print("(1) Deposit        (2) Withdrawal\n(3) Fast Cash     (4) Transfer\n(5)
        tx = int(input("Enter the transaction number (1-6): "))
        if tx == 1:
            deposit = int(input("\nEnter the amount you wish to deposit: "))
            customer.deposit(deposit)
        elif tx == 2:
            withdrawal = int(input("\nEnter the amount you wish to wishdraw: "))
            customer.withdraw(withdrawal)
        elif tx == 3:
            customer.fast_cash()
        elif tx == 4:
            dest_acc = input("\nEnter the destination bank account: ")
            transfer = int(input("Enter the amount you wish to transfer: "))
            customer.transfer(dest_acc, transfer)
        elif tx == 5:
            customer.change_PIN()
        elif tx == 6:
            print("\nAccount Settings")
            print("(1) Change Account Name      (2) Balance Inquiry")
            acc_set = int(input("Enter the number (1-2): "))
            if acc_set == 1:
                new_name = input("\nPlease enter a new account name: ")
                customer.change_acc_name(new_name)
            elif acc_set == 2:
                customer.balance_inquiry()
            else:
                print(f'\n{acc_set} is an invalid number. Please try again...')
        else:
            print(f'\n{tx} is an invalid number. Please try again...')
```

```
Welcome!
Please insert your card
```

```
Please enter PIN:  1234
Incorrect PIN
You have 2 retries left.

Please enter PIN:  123456
Please select transaction
(1) Deposit       (2) Withdrawal
(3) Fast Cash     (4) Transfer
(5) PIN Change    (6) Account Settings
Enter the transaction number (1-6):  6

Account Settings
(1) Change Account Name      (2) Balance Inquiry
Enter the number (1-2):  2

Account: Natthaphong  Balance: 500 Baht
```