ABSTRACTION:

```
class account:
    def __init__(self,account_num,bal,pin):
        self.__account_num = account_num
        self.__bal = bal
        self.__pin = "123"
    def __verify(self,user_pin):
        return user_pin == self.__pin
    def __update_withdraw(self,amount):
        self.__bal -= amount
    def __update_deposit(self,amount):
        self.__bal += amount
    def debit(self,user_pin,amount):
        if self.__verify(user_pin):
            if amount <= self.__bal:
                self.__update_withdraw(amount)
                return f"transaction done debited:{amount}"
            else:
                return "invalid amount"
        else:
            return "invalid Pin"
    def credit(self,user_pin,amount):
        if self.__verify(user_pin):
            self.__update_deposit(amount)
            return f"transaction done credited:{amount}"
        else:
            return "invalid pin"
    def check_bal(self,user_pin):
```

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        if self.__verify(user_pin):
            return f"available bal {self.__bal}"
        else:
            return "invalid pin"
atm = account("12353",5000,"123")
print(atm.credit("123",5000))
print(atm.debit("123",2000))
print(atm.check_bal("123"))
```

OUTPUT:

```
transaction done credited:5000
transaction done debited:2000
available bal 8000
```

ENCAPSULATION:

```
class BankExample:
    def __init__(self, name, min_bal, ac_number, p_number):
        self.userName = name
        self._minimum_Balnace = min_bal
        self._accountNumber = ac_number
        self.__pinNumber = p_number

    def show_details(self):
        print(f"{self.userName} with min bal {self._minimum_Balnace}")

    def deposit_Amount(self, d_ac_num, d_amount):
        if self._accountNumber == d_ac_num:
            if self._minimum_Balnace > 0:
                self._minimum_Balnace += d_amount
            print(f"total amount :-- {self._minimum_Balnace} after depositing {d_amount}")
```

```
        else:
            print("incorrect account number", d_ac_num)

    def withdrwa_Amount(self, w_amount, p_number):
        if self.__pinNumber == p_number:
            if w_amount <= self._minimum_Balnace:
                self._minimum_Balnace -= w_amount
                print(f"{w_amount} withdrawn successfully")
                print(f"{self._minimum_Balnace} is main bal")
            else:
                print("insufficient bal", self._minimum_Balnace)
        else:
            print("incorrect pin")
    def check_bal(self, pin):
        if self.__pinNumber == pin:
            print(f"{self._minimum_Balnace} is main bal")
        else:
            print("incorrect pin", pin)
abc = BankExample("vamsi", 10000, "123123123123", 1234)
abc.show_details()
abc.deposit_Amount("123123123123", 5000)
abc.withdrwa_Amount(3000, 1234)
abc.check_bal(1234)
abc.check_bal(9999)
```

OUTPUT:

```
vamsi with min bal 10000
total amount :-- 15000 after depositing 5000
3000 withdrawn successfully
```

12000 is main bal

12000 is main bal

incorrect pin 9999