

## ATM System - Final Implementation Summary

### Directory Structure:

#### Low Level Designs/

```
|-- Atm/  
  
    |-- account.py    # Contains Account class  
  
    |-- card.py       # Contains Card class  
  
    |-- atm.py        # Contains ATM class and driver code
```

### Account Class:

- account\_no: str
- balance: int (default 0)
- get\_balance(): returns current balance
- withdraw(amount): returns True/False depending on sufficient funds
- deposit(amount): adds amount to balance

### Card Class:

- card\_no: int
- \_pin: int (private)
- account: Account object (link)
- validate\_pin(input\_pin): returns True/False
- set\_card\_pin(new\_pin): updates PIN

### ATM Class:

- insert\_card(card): sets current card
- validate\_pin(pin): authenticates PIN
- withdraw\_money(amount): calls account.withdraw()

- deposit\_money(amount): calls account.deposit()
- show\_remaining\_balance(): calls account.get\_balance()
- eject\_card(): resets session

Driver Code Execution (Output):

Congratulations!! Pin matched

Remaining Balance is - 0

Deposit Successful

Remaining Balance is - 2000

Withdrawal Successful

Remaining Balance is - 1000

Withdrawal Successful

Remaining Balance is - 0

Not enough Balance

Remaining Balance is - 0

Card ejected. Thank you