**5.Write 5 Functional, 5 System & 5 Adoc test cases for an ATM Machine, covering various operations and scenarios.**

**Solution:**

**Functional Test Cases for an ATM Machine**

1. User Authentication

- Input: Correct PIN entered

- Expected Output: Access granted to the user’s account

2. Withdraw Cash

- Input: User selects withdrawal of $100 with sufficient balance

- Expected Output: $100 dispensed and updated balance displayed

3. Deposit Cash

- Input: User deposits $200 in cash

- Expected Output: Receipt generated, and updated balance displayed

4. Balance Inquiry

- Input: User requests account balance

- Expected Output: Current account balance displayed

5. Change PIN

- Input: User enters current PIN and new PIN

- Expected Output: PIN changed successfully with confirmation message

**System Test Cases for an ATM Machine**

1. ATM Connectivity

- Input: Attempt to access the ATM

- Expected Output: ATM connects to the bank server and verifies user credentials

2. Cash Dispensing Mechanism

- Input: Request for withdrawal exceeding available cash

- Expected Output: System displays error message for insufficient cash

3. Session Timeout

- Input: User remains idle for a specified duration

- Expected Output: Session automatically times out, and user is logged out

4. Transaction History

- Input: User requests transaction history

- Expected Output: Display of recent transactions on the screen

5. Multiple Transactions

- Input: User performs a series of transactions (withdraw, deposit, balance inquiry)

- Expected Output: All transactions processed correctly, and updated balances displayed

**Acceptance Test Cases for an ATM Machine**

1. User-Friendly Interface

- Input: User interacts with the ATM interface

- Expected Output: Interface is intuitive and easy to navigate

2. Accessibility Features

- Input: User with disabilities attempts to use the ATM

- Expected Output: Features such as audio assistance are available

3. Error Handling

- Input: User enters an invalid PIN multiple times

- Expected Output: ATM locks the user out after a specified number of incorrect attempts

4. Receipt Generation

- Input: User completes a transaction

- Expected Output: Receipt printed with transaction details

5. Maintenance Notifications

- Input: ATM requires maintenance (e.g., low cash)

- Expected Output: System displays notification for maintenance personnel on the admin interface