ATM Project - Java Console Application

# Overview

This is a simple ATM (Automated Teller Machine) Simulation Project developed in Java using console-based input/output. The application simulates basic ATM services like checking balance, depositing money, and withdrawing funds after entering a valid PIN.

# Features

- PIN authentication (Default PIN: 1234)  
- Check Account Balance  
- Deposit Amount  
- Withdraw Amount (with balance check)  
- Exit Option with a Thank You message

# Technologies Used

- Programming Language: Java  
- Input/Output: Scanner class (java.util.Scanner) for console interaction

# File Structure

ATMProject.java  
README.md (or this document)

# How It Works

1. The user is prompted to enter the ATM PIN.  
2. If the entered PIN is correct (1234), the user is shown a menu with 4 options:  
 - 1. Check Balance  
 - 2. Deposit Amount  
 - 3. Withdraw Amount  
 - 4. Exit  
3. The user can repeatedly interact with the ATM until they choose to exit.  
4. All operations are validated:  
 - No negative deposits or withdrawals.  
 - Withdrawals must be less than or equal to the current balance.

# Sample Output

Enter the ATM PIN:  
1234  
It is valid atm pinno  
Welcome to sbi atm  
1. Check your balance  
2. Deposit  
3. Withdraw  
4. Exit  
Enter your choice:

# Sample Test

Example:  
- Initial Balance: 1000  
- Deposit: 500 → Balance: 1500  
- Withdraw: 300 → Balance: 1200

# How to Run

Step-by-Step:  
1. Open any Java IDE or text editor.  
2. Copy the full Java code into a file named ATMProject.java.  
3. Compile the program:  
 javac ATMProject.java  
4. Run the program:  
 java ATMProject

# Future Improvements

- Add multiple user support with different PINs and balances.  
- Use file handling or database for persistent storage.  
- Implement GUI using JavaFX or Swing.  
- Add receipt print simulation or transaction history.

# Contact

Developer: Bonthapally Anusha Nageshwar  
Email: anushabonthapally@example.com  
LinkedIn: https://www.linkedin.com/in/bonthapally-anusha-nageshwar-397a8a29a?utm\_source=share&utm\_campaign=share\_via&utm\_content=profile&utm\_medium=android\_app