Python OOP Assignment: ATM Machine

Overview

In this assignment, you will create an object-oriented ATM (Automated Teller Machine) simulation in Python. You'll implement a class with methods to handle basic banking operations.

Requirements

Class Definition

Create a class named ATM with the following attributes:

- Balance: Initial value of 5000 rupees
- Pin: Default value of 1234

Required Methods

1. check_pin(input_pin): Verify if the entered PIN matches the stored PIN
2. check_balance(): Display the current account balance
3. deposit(amount): Add money to the account (requires valid PIN)
4. withdraw(amount): Remove money from the account (requires valid PIN and sufficient balance)
5. exit(): Terminate the program

Validation Rules

- PIN must be validated before allowing deposits or withdrawals
- Prevent negative deposit amounts
- Prevent withdrawals that exceed available balance
- Handle invalid user inputs appropriately