1. **Define a class to represent a bank account. Include the following details like name of the depositor, account number, type of account, balance amount in the account. Write methods to assign initial values, to deposit an amount, withdraw an amount after checking the balance, to display name, account number, account type and balance.**

public class Main {

// Instance variables for the account details

private String name;

private String accountNumber;

private String accountType;

private double balance;

// Constructor to initialize the bank account details

public Main(String name, String accountNumber, String accountType, double initialBalance) {

this.name = name;

this.accountNumber = accountNumber;

this.accountType = accountType;

this.balance = initialBalance;

}

// Method to deposit an amount into the account

public void deposit(double amount) {

if (amount > 0) {

balance += amount;

System.out.println("Deposited: " + amount);

} else {

System.out.println("Deposit amount must be greater than zero.");

}

}

// Method to withdraw an amount from the account

public void withdraw(double amount) {

if (amount > 0) {

if (amount <= balance) {

balance -= amount;

System.out.println("Withdrew: " + amount);

} else {

System.out.println("Insufficient balance.");

}

} else {

System.out.println("Withdrawal amount must be greater than zero.");

}

}

// Method to display account details

public void displayAccountDetails() {

System.out.println("Account Details:");

System.out.println("Name: " + name);

System.out.println("Account Number: " + accountNumber);

System.out.println("Account Type: " + accountType);

System.out.println("Balance: " + balance);

}

// Main method to test the Main class

public static void main(String[] args) {

// Create a new Main object (representing a bank account)

Main account = new Main("John Doe", "123456789", "Savings", 1000.0);

// Display initial account details

account.displayAccountDetails();

// Deposit money into the account

account.deposit(500.0);

// Withdraw money from the account

account.withdraw(200.0);

// Display updated account details

account.displayAccountDetails();

}

}

**Output:**

Account Details:

Name: John Doe

Account Number: 123456789

Account Type: Savings

Balance: 1000.0

Deposited: 500.0

Withdrew: 200.0

Account Details:

Name: John Doe

Account Number: 123456789

Account Type: Savings

Balance: 1300.0