Question4:

**package** guviTask2;

**public** **class** Account {

// Data members for account number and balance

**private** String accountNumber;

**private** **double** balance;

// No-argument constructor

**public** Account() {

**this**.accountNumber = "0000"; // Default account number

**this**.balance = 0.0; // Default balance

}

// Constructor with two arguments (account number and initial balance)

**public** Account(String accountNumber, **double** balance) {

**this**.accountNumber = accountNumber;

**this**.balance = balance;

}

// Method to deposit money 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 positive.");

}

}

// Method to withdraw money from the account

**public** **void** withdraw(**double** amount) {

**if** (amount > 0 && amount <= balance) {

balance -= amount;

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

} **else** {

System.***out***.println("Insufficient funds or invalid amount.");

}

}

// Method to check the current balance

**public** **void** checkBalance() {

System.***out***.println("Current balance: " + balance);

}

// Main method to test the Account class

**public** **static** **void** main(String[] args) {

// Creating account using no-argument constructor

Account account1 = **new** Account();

System.***out***.println("Account 1 created with default values.");

account1.checkBalance();

// Creating account using two-argument constructor

Account account2 = **new** Account("12345", 500.0);

System.***out***.println("\nAccount 2 created with account number and balance.");

account2.checkBalance();

// Testing deposit and withdrawal on account2

account2.deposit(200.0); // Deposit 200

account2.withdraw(100.0); // Withdraw 100

account2.checkBalance(); // Check balance after transactions

}}

Output:

|  |
| --- |
| Account 1 created with default values.  Current balance: 0.0  Account 2 created with account number and balance.  Current balance: 500.0  Deposited: 200.0  Withdrew: 100.0  Current balance: 600.0 |