1.

DEVELOP PROGRAM that asks the user to enter two integers, obtains them from the user and displays the larger number followed by the words “is larger”. If the numbers are equal, print “These numbers are equal”

2.

CREATE class Account to provide a method called debit that withdraws money from an Account. Ensure that the debit amount does not exceed the Account’s balance. If it does, the balance should be left unchanged and the method should print a message indicating ―Debit amount exceeded account balance. UPDATE class AccountTest to test method debit

3.

BUILD a class called Invoice that a hardware store might use to represent an invoice for an item sold at the store.

An Invoice should include four pieces of information as instance variables‐a part number (type String), a part description (type String),a quantity of the item being purchased (type int) and a price per item  (double).

Your class should have a constructor that initializes the four instance variables.

Provide a set and a get method for each instance variable.

In addition, provide a method named getInvoice Amount that calculates the invoice amount (i.e., multiplies the quantity by the price per item), then returns the amount as a double value.

If the quantity is not positive, it should be set to 0.

If the price per item is not positive, it should be set to 0.0.

Write a test application named InvoiceTest that demonstrates class Invoice’s capabilities.

4. STATIC CONCEPT:

Create class SavingsAccount. Use a static variable annualInterestRate to store the annual interest rate for all account holders.

Each object of the class contains a private instance variable savingsBalance indicating the amount the saver currently has ondeposit.

Provide method calculateMonthlyInterest to calculate the monthly www.oumstudents.tk interest by multiplying the savingsBalance by annualInterestRate divided by 12 this interest should be added to savingsBalance.

Provide a static method modifyInterestRate that sets the annualInterestRate to a new value. Write a program to test class SavingsAccount.

Instantiate two savingsAccount objects, saver1 and saver2, with balances of $2000.00 and $3000.00, respectively.

Set annualInterestRate to 4%, then calculate the monthly interest and print the new balances for both savers. Then set the annualInterestRate to 5%, calculate the next month’s interest and print the new balances for both savers