

ADF-I Assignment 8: Abstract

Write a Java application - **Inventory System** - to manage the list of computers with the specification as follows:

1	<p>Creates an abstract class named Computer in package Goods.</p> <ul style="list-style-type: none">- Fields ID, name, price- Default constructor to initialize the above fields.- Method<ul style="list-style-type: none">- void accept() : allow user input data into data fields. Made validation for : ID, name is not null. Price must be greater than zero.- void printInfo() : this is an abstract method used to print details of an product.
2	<p>Create class Laptop derives from Computer, in package Goods, consists of:</p> <ul style="list-style-type: none">- Field webcam (y/n), QoH (số lượng tồn kho)- Constructors to initialize the all fields.- Override methods:<ul style="list-style-type: none">- accept() : allow user to input details for a laptop: Recall method accept() of super class.- printInfo() : display details of an laptop.- toString() : return a string presenting all the details of a product as follows: id, name, webcam, price, QoH, amount (= price*QoH)
4	<p>Create class LaptopCatalog in package Goods for managing a collection of Computers</p> <ul style="list-style-type: none">- Fields: max, cnt, cList – array of laptops No-arg constructor to initialize the all the fields.- Methods:<ul style="list-style-type: none">- addLaptop() - add a new laptop into array- search (String laptopName) - search laptops by the name accepted by user.- displayAll() - display all computers.- remove(String laptopID): remove laptop by id
5	<p>Create main class Inventory in package Application that allows user to manage the laptops accepted into system through the menu system as follows:</p> <ol style="list-style-type: none">1. Add a new laptop2. Search laptop by name3. Display all laptops4. Remove a laptop by id5. Exit