HTC Global Services Inc.
Training Division

AP Onsite Training

Core Java
(Core Java, JDBC)

Date	: 27-12-2017
Duration	: 3 Hours
Total Marks	: 25

Instructions for Students
1. Do not Mark anything on the Question paper
2. Return the Question paper to the invigilator after the completion of the Test
3. Read the Question Paper thoroughly before answering the questions
4. Strictly follow Naming standards and coding conventions

I. Answer all the following questions.   **5 marks.**

1. Write a class **Product**, with following data members and member functions for accomplishing the given requirements.

Fields:
   productId, productName, price, quantityOnHand, reorderLevel, reorderQty
   Assume reorderLevel of the product is 10 qty's and reorderQuantity is 50 quantities.
   Write setters, getters and necessary constructors

Write a class **Stores** which has a List of Products as its only field. Populate the list in the constructor of Stores. Add the following methods to this class.

double sellItem(int productCode, int qtyRequired) throws ProductNotFoundException,
                                                  InsufficientQuantityException;

It should sell the required qty and show the total amount. This method also checks whether reorderLevel is reached. If yes, raise a purchase order.
[Just print a message on the screen saying that '**purchase order is made**'].

void updateStock(int productCode, int arrivedQty) throws ProductNotFoundException;

2. Create a Comparator<**Product**> object to sort the products in stores class with respect to price. Display the sorted products.

3. There is a class called **Insurance** which is not a Serializable class.
   There is an another class called **Person** which is Serializable and has Insurance as a field.
   Write a manual serialization program to serialize the Person object

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II. Answer the following question.   **10 mark.**

1. Create an Entity class named **Issue** with the following fields

   issueId, issueGeneratedDate, issueCategory, issueDescription

   a) Create an interface **IissueServiceProvider** for CRUD methods and provide implementation.
   b) Write a Stored Procedure/ Function for CRUD operations.
   c) Use Callable statement to invoke the Procedure/Function.