**Q1. write a java program on below questions [OOP's].**

**1.1) Create a class Person with properties (name and age) with following features.**

**a. Default age of person should be 18;**

**b. A person object can be initialized with name and age;**

**c. Method to display name and age of person**Output: **Name: Jhon  
Age: 25**

**1.2). Create class Product (pid, price, quantity) with parameterized constructor. Create a main function in different class (say XYZ) and perform following task:**

**a. Accept five product information from user and store in an array**

**b. Find Pid of the product with the highest price.**

**c. Create method (with array of product's object as argument) in XYZ class to calculate and return the total amount spent on all products. (amount spent on single product-price of product quantity of product  
  
Input:**

Enter details for 5 products:

Enter Product ID: 101

Enter Product Price: 20.5

Enter Product Quantity: 2

Enter Product ID: 102

Enter Product Price: 50.0

Enter Product Quantity: 1

Enter Product ID: 103

Enter Product Price: 30.0

Enter Product Quantity: 3

Enter Product ID: 104

Enter Product Price: 10.0

Enter Product Quantity: 5

Enter Product ID: 105

Enter Product Price: 25.0

Enter Product Quantity: 4

**Output:**

Product ID with the highest price: 102

Total amount spent on all products: 260.0

**1.3) Create Class Account with data member As Balance. Create two constructors (no argument, and two arguments) and perform following task**

**a. method to deposit the amount to the account.**

**b. method to withdraw the amount from the account.**

**C. method to display the Balance**Output: **Account 1:**

**Current Balance: 0.0**

**Deposited: 500.0**

**Withdrew: 200.0**

**Current Balance: 300.0**

**Account 2:**

**Current Balance: 1000.0**

**Deposited: 300.0**

**Insufficient balance for withdrawal.**

**Withdrew: 500.0**

**Current Balance: 800.0  
  
  
1.4) Define a base class Person with attributes name and age.**

**Create a subclass Employee that inherits from Person and adds attributes like employeeID and salary.**

**Use the super keyword to initialize the Person attributes in the Employee constructor.**

Output: **Employee Details:**

**Name: Jhon**

**Age: 25**

**Employee ID: E12345**

**Salary:25000.0**