Java Fundamentals Section 4

```
package inventory;
* This class represents a product in the inventory system.
public class Product {
// Instance field declarations
private int itemNumber;
private String name;
private int quantity;
private double price;
* Default constructor that initializes the fields to their default values.
public Product() {
// Default constructor
/**
* Parameterized constructor to initialize the product with specific values.
* @param number the item number
* @param name the name of the product
* @param qty the quantity in stock
* @param price the price of each unit */
public Product(int number, String name, int qty, double price) {
this.itemNumber = number;
this.name = name:
this.quantity = qty;
this.price = price;
// Getter and setter methods
* Gets the item number.
* @return the item number
public int getItemNumber() {
return itemNumber;
}
/**
* Sets the item number.
* @param itemNumber the item number to set
public void setItemNumber(int itemNumber) {
this.itemNumber = itemNumber:
* Gets the name of the product.
* @return the name of the product
*/
```

```
public String getName() { return name;
/**
* Sets the name of the product.
* @param name the name of the product to set
public void setName(String name) {
this.name = name;
* Gets the quantity in stock.
* @return the quantity in stock
public int getQuantity() {
return quantity;
/**
* Sets the quantity in stock.
* @param quantity the quantity to set
*/
public void setQuantity(int quantity) {
this.quantity = quantity;
/**
* Gets the price of each unit.
* @return the price of each unit
*/ public double getPrice() {
return price;
/**
* Sets the price of each unit.
* @param price the price to set
*/
public void setPrice(double price) {
this.price = price;
}
/**
* Returns a string representation of the product.
* @return a description of the product
@Override
public String toString() {
return "Item Number : " + itemNumber + "\n" +
"Name : " + name + "\n" +
"Quantity in stock: " + quantity + "\n" +
"Price: " + price;
OUTPUT
```

Product 1 Details: Name : Office Chair Price: 89.99

Product 2 Details: Item Number: 102 Name : Laptop

Product 3 Details: Name : Desk Lamp

Price: 19.99

Item Number : 104

Name : Bluetooth Headphones