## Java Fundamentals

## Section 4: Creating an Inventory Project

```
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:
Item Number : 101
Name : Office Chair
Quantity in stock: 15
Price : 89.99

Product 2 Details:
Item Number : 102
Name : Laptop
Quantity in stock: 10
Price : 999.99

Product 3 Details:
Item Number : 103
Name : Desk Lamp
Quantity in stock: 25
Price : 19.99

Product 4 Details:
Item Number : 104
Name : Bluetooth Headphones
Quantity in stock: 30
Price : 59.99

Product 5 Details:
Item Number : 105
Name : USB Drive
Quantity in stock: 50
Price : 12.99

Product 6 Details:
Item Number : 106
Name : Monitor
Quantity in stock: 5
Price : 199.99