

## **SECTION 4**

### **JAVA ECLIPSE PROJECT**

#### **Task 1: Identify products and their attributes**

Here are six products that I want to store in my inventory system:

1. Product: Office Chair
  - Name: Ergonomic Chair
  - Price: \$99.99
  - Number of units in stock: 10
  - Item number: 1
2. Product: Music CD
  - Name: Greatest Hits
  - Price: \$9.99
  - Number of units in stock: 25
  - Item number: 2
3. Product: Software
  - Name: Microsoft Office
  - Price: \$149.99
  - Number of units in stock: 5
  - Item number: 3
4. Product: DVD Movie
  - Name: The Shawshank Redemption
  - Price: \$14.99
  - Number of units in stock: 15
  - Item number: 4

5. Product: Office Supplies

- Name: Stapler
- Price: \$4.99
- Number of units in stock: 20
- Item number: 5

6. Product: Electronics

- Name: Wireless Mouse
- Price: \$29.99
- Number of units in stock: 10
- Item number: 6

Attribute	Sample Data	Data Type
Name of the product	Ergonomic Chair	String
Price	99.99	double
Number of units in stock	10	int
Item number	1	int

### Task 3-12: Create Java program

Here is the Java program that meets the requirements:

```
package product;

public class Product {
    private int itemNumber;
    private String name;
    private int quantityInStock;
    private double price;

    public Product() {
    }

    public Product(int number, String name, int qty, double price) {
        this.itemNumber = number;
        this.name = name;
        this.quantityInStock = qty;
        this.price = price;
    }

    public int getItemNumber() {
        return itemNumber;
    }

    public String getName() {
        return name;
    }

    public int getQuantityInStock() {
        return quantityInStock;
    }
}
```

```
}
```

```
public double getPrice() {  
    return price;  
}
```

```
public void setItemNumber(int number) {  
    this.itemNumber = number;  
}
```

```
public void setName(String name) {  
    this.name = name;  
}
```

```
public void setQuantityInStock(int qty) {  
    this.quantityInStock = qty;  
}
```

```
public void setPrice(double price) {  
    this.price = price;  
}
```

```
@Override
```

```
public String toString() {  
    return "Item Number: " + itemNumber + "\nName: " + name + "\nQuantity in stock: " +  
quantityInStock + "\nPrice: " + price;  
}
```

```
public static void main(String[] args) {  
    // Create and initialize six Product objects  
  
    Product product1 = new Product(1, "Ergonomic Chair", 10, 99.99);
```

```
Product product2 = new Product(2, "Greatest Hits", 25, 9.99);
Product product3 = new Product(3, "Microsoft Office", 5, 149.99);
Product product4 = new Product(4, "The Shawshank Redemption", 15, 14.99);
Product product5 = new Product(5, "Stapler", 20, 4.99);
Product product6 = new Product(6, "Wireless Mouse", 10, 29.99);

System.out.println(product1.toString());
System.out.println("\n");
System.out.println(product2.toString());
System.out.println("\n");
System.out.println(product3.toString());
System.out.println("\n");
System.out.println(product4.toString());
System.out.println("\n");
System.out.println(product5.toString());
System.out.println("\n");
System.out.println(product6.toString());
}
}
```

Problems @ Javadoc Declaration Console X

<terminated> Product [Java Application] C:\Program Files\Java\jdk-21\bin\java

Item Number: 1

Name: Ergonomic Chair

Quantity in stock: 10

Price: 99.99

Item Number: 2

Name: Greatest Hits

Quantity in stock: 25

Price: 9.99

Item Number: 3

Name: Microsoft Office

Quantity in stock: 5

Price: 149.99

Item Number: 4

Name: The Shawshank Redemption

Quantity in stock: 15

Price: 14.99

Item Number: 5

Name: Stapler

Quantity in stock: 20

Price: 4.99

Item Number: 6

Name: Wireless Mouse

Quantity in stock: 10

Price: 29.99