# JAVA FUNDAMENTALS SECTION 5: Creating an Inventory Project

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# Topic(s):

- Scanner/Keyboard Input
- Boolean fields and ternary operators

#### PROBLEM STATEMENT:

Create an inventory program that can be used for a range of different products.

#### CODE:

```
import java.util.Scanner;
class Product {
  private int number;
  private String name;
  private int qty;
  private double price;
  private boolean active;
  public Product() {
    this.number = 0;
    this.name = "";
    this.qty = 0;
    this.price = 0.0;
    this.active = false;
  }
  public Product(int number, String name, int qty, double price, boolean active) {
    this.number = number;
    this.name = name;
```

```
this.qty = qty;
  this.price = price;
  this.active = active;
}
public int getNumber() {
  return number;
}
public void setNumber(int number) {
  this.number = number;
}
public String getName() {
  return name;
}
public void setName(String name) {
  this.name = name;
}
public int getQty() {
  return qty;
}
public void setQty(int qty) {
  this.qty = qty;
}
public double getPrice() {
```

```
return price;
}
public void setPrice(double price) {
  this.price = price;
}
public boolean isActive() {
  return active;
}
public void setActive(boolean active) {
  this.active = active;
}
public double getInventoryValue() {
  return price * qty;
}
public String toString() {
  return "Item Number " + number + "\n" +
      "Name: " + name + "\n" +
      "Quantity in stock: " + qty + "\n" +
      "Price : " + price + "\n" +
      "Stock Value : " + getInventoryValue() + "\n" +
      "Product Status: " + (active? "Active": "Discontinued");
}
```

}

```
public class ProductTester {
  public static void main(String[] args) {
    Scanner in = new Scanner(System.in);
    int tempNumber;
    String tempName;
    int tempQty;
    double tempPrice;
    boolean tempActive;
    System.out.print("Enter item number: ");
    tempNumber = in.nextInt();
    System.out.print("Enter item name: ");
    in.nextLine();
    tempName = in.nextLine();
    System.out.print("Enter quantity: ");
    tempQty = in.nextInt();
    System.out.print("Enter price: ");
    tempPrice = in.nextDouble();
    System.out.print("Is the product active? (true/false): ");
    tempActive = in.nextBoolean();
    Product p1 = new Product(tempNumber, tempName, tempQty, tempPrice, tempActive);
    in.nextLine();
    System.out.print("Enter item number: ");
    tempNumber = in.nextInt();
    System.out.print("Enter item name: ");
```

```
in.nextLine();
tempName = in.nextLine();
System.out.print("Enter quantity: ");
tempQty = in.nextInt();
System.out.print("Enter price: ");
tempPrice = in.nextDouble();
System.out.print("Is the product active? (true/false): ");
tempActive = in.nextBoolean();

Product p2 = new Product(tempNumber, tempName, tempQty, tempPrice, tempActive);
System.out.println(p1.toString());
System.out.println(p2.toString());
in.close();
}
```

# OUTPUT:

}

### C:\Users\rishi>cd downloads

# C:\Users\rishi\Downloads>javac ProductTester.java

C:\Users\rishi\Downloads>java ProductTester

Enter item number: 19156 Enter item name: CHAIRS

Enter quantity: 150 Enter price: 2890.76

Is the product active? (true/false): TRUE

Enter item number: 19157 Enter item name: ICECREAMS

Enter quantity: 500 Enter price: 9006.54

Is the product active? (true/false): FALSE

Item Number 19156

Name : CHAIRS

Quantity in stock: 150

Price : 2890.76

Stock Value : 433614.00000000006

Product Status : Active

Item Number 19157 Name : ICECREAMS

Quantity in stock: 500

Price: 9006.54

Stock Value : 4503270.0

Product Status : Discontinued