# **JAVA FUNDAMENTALS SECTION 5:** Creating an Inventory Project

* B.RISHITHA

192324130

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:

