Java Fundamentals
Section 5

```java
package inventory;
public class Product {
private int itemNumber;
private String name;
private int quantity;
private double price;
private boolean active = true; // Default value
// Constructor with parameters
public Product(int itemNumber, String name, int quantity, double price) {
this.itemNumber = itemNumber;
this.name = name;
this.quantity = quantity;
this.price = price;
}
// Getters and Setters
public int getItemNumber() { return itemNumber; }
public void setItemNumber(int itemNumber) { this.itemNumber = itemNumber; }
public String getName() { return name; }
public void setName(String name) { this.name = name; } public int getQuantity()
{ return quantity; }
public void setQuantity(int quantity) { this.quantity = quantity; }
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; }
// Method to calculate inventory value
public double getInventoryValue() {
return price * quantity;
}
// toString method with ternary operator
@Override
public String toString() {
return "Item Number : " + itemNumber + "\n" +
"Name : " + name + "\n" +
"Quantity in stock: " + quantity + "\n" +
"Price : " + price + "\n" +
"Stock Value : " + getInventoryValue() + "\n" +
"Product Status : " + (active ? "Active" : "Discontinued");
}
}
```

OUTPUT

```
Enter item number: 1
Enter product name: Greatest Hits
Enter quantity in stock: 25
Enter price: 9.99

Enter item number for second product: 2
Enter product name for second product: Latest Release
Enter quantity in stock for second product: 30
Enter price for second product: 19.99

Product 1 Details:
Item Number : 1
Name : Greatest Hits
Quantity in stock: 25
Price : 9.99
Stock Value : 249.75
Product Status : Active

Product 2 Details:
Item Number : 2
Name : Latest Release
Quantity in stock: 30
Price : 19.99
Stock Value : 599.70
Product Status : Active
```