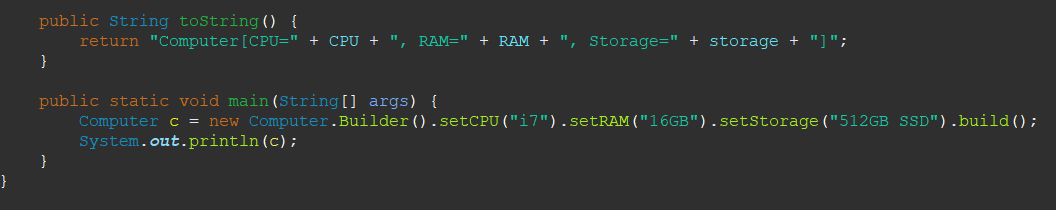
Week 1 Assignment Solutions

1. **Design Patterns**

Q3. Builder Pattern

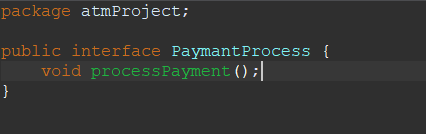


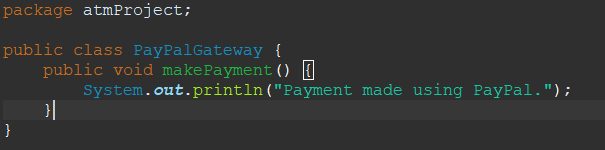


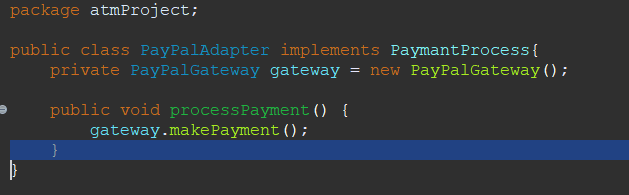
Output-

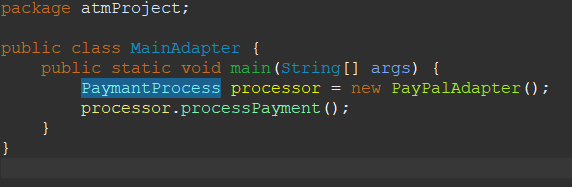
Screenshot 2025-06-21 113613.png

Q4.Adapter Pattern





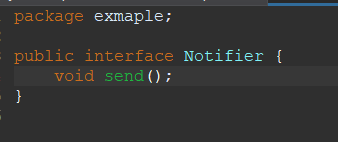


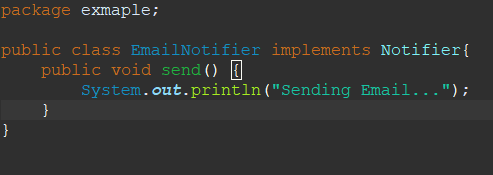


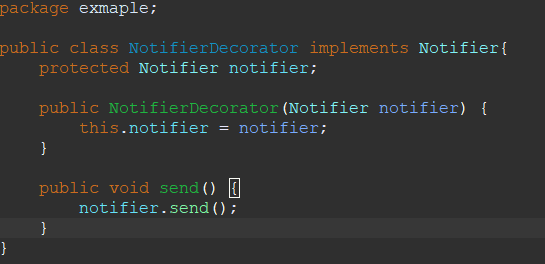
Output-

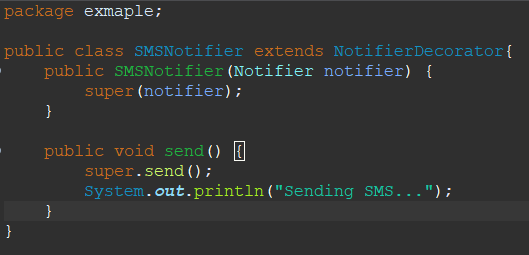
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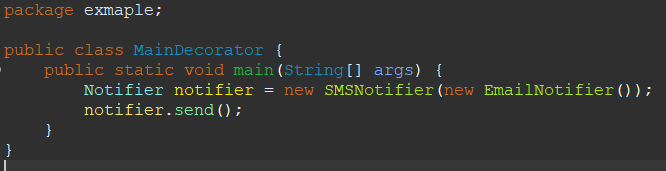
Q5. Decorator pattern

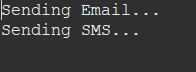




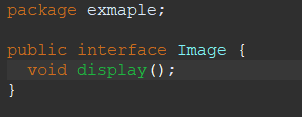


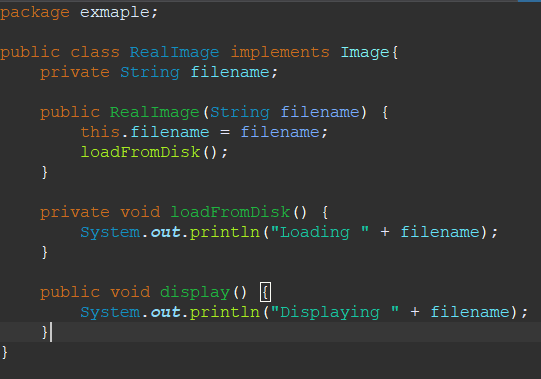


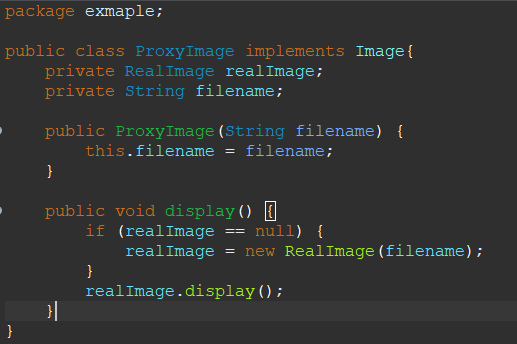


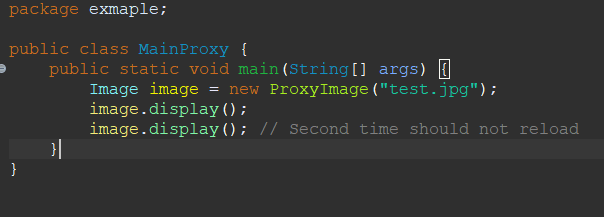


Q6. Proxy Pattern

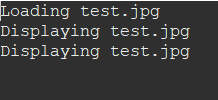




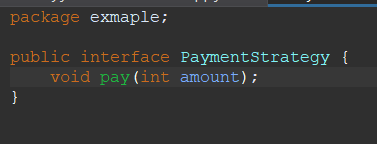


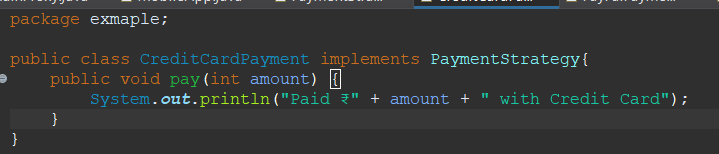


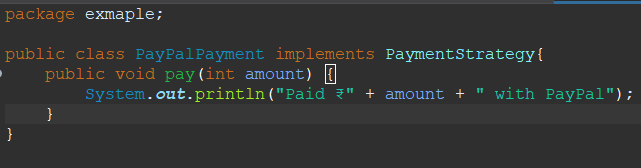
Output –

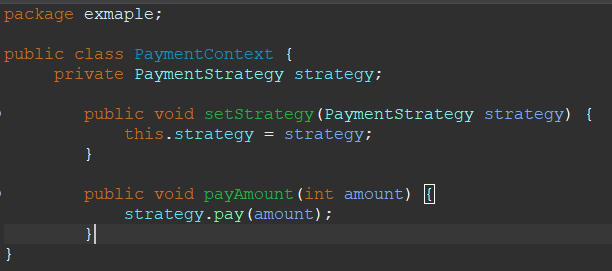


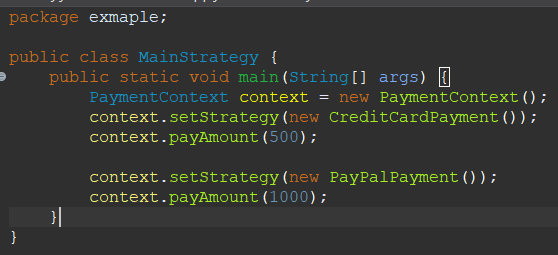
Q7. Strategy Pattern









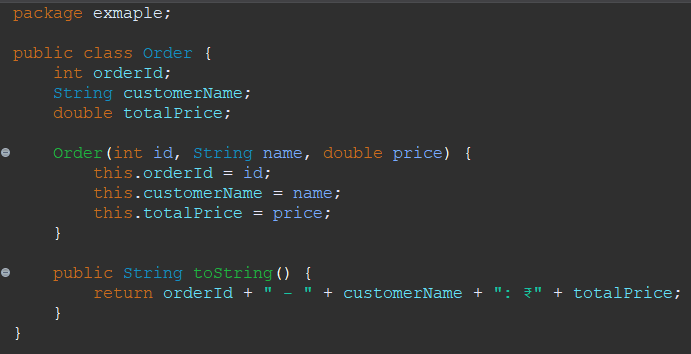


Output –

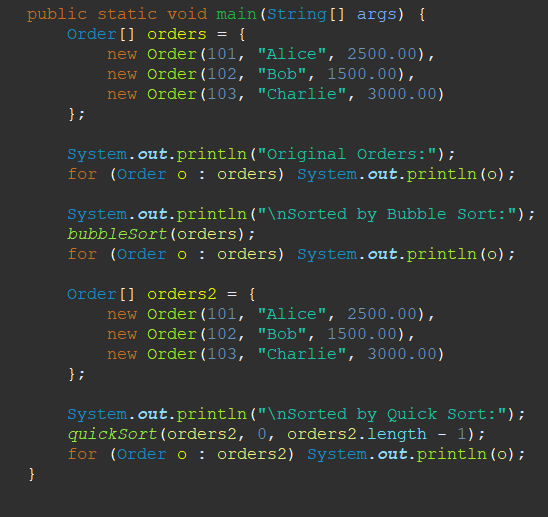
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1. **Data Structures and Algorithms**

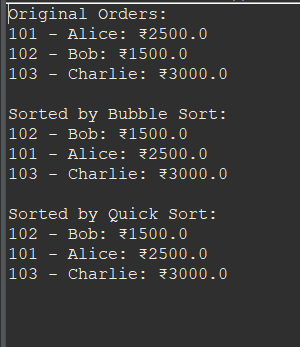
Q3. Sorting Customer Orders



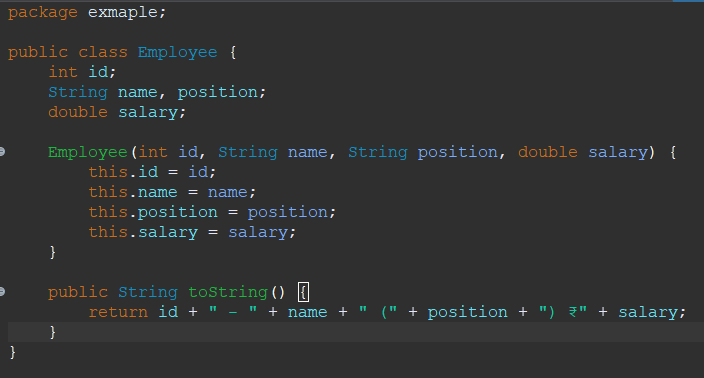




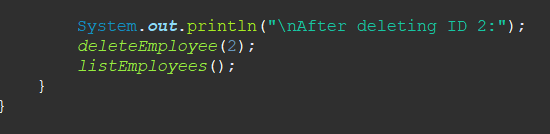
Output –



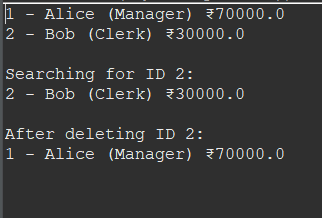
Q4. Employee Management System



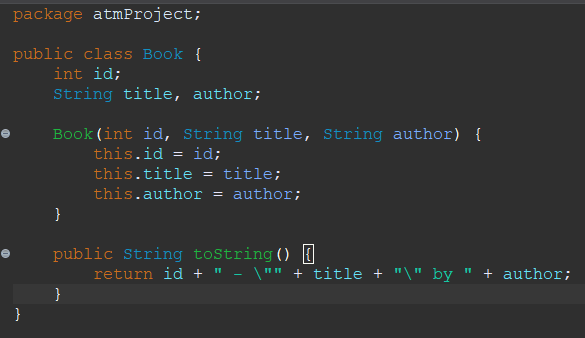


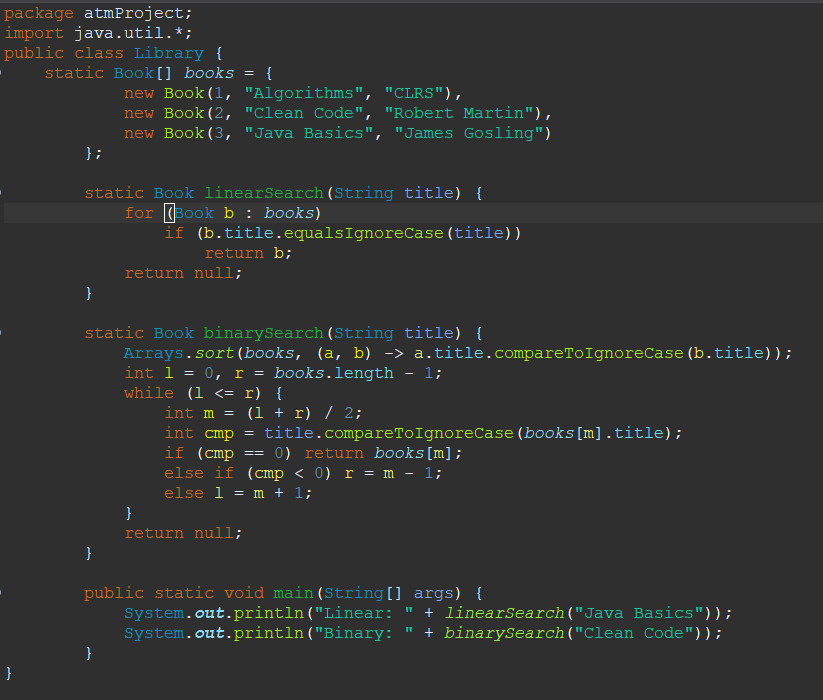


Output –



Q6. Library Management System





Output –

