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Exercise 2: Implementing Dependency Injection
Objective: Demonstrate dependency injection in Spring.
Solution:
Define interfaces and classes:
public interface MessageService {
    String getMessage();
public class EmailService implements MessageService {
    public String getMessage() {
        return "Email message";
Dependent class:
java
public class MessageProcessor {
    private MessageService service;
    // Setter injection
    public void setService(MessageService service) {
        this.service = service;
    }
    public void process() {
        System.out.println(service.getMessage());
}
XML configuration (applicationContext.xml):
xml
<bean id="emailService" class="com.example.EmailService"/>
<bean id="messageProcessor" class="com.example.MessageProcessor">
    cproperty name="service" ref="emailService"/>
</bean>
```