**WEEK3\_Extra\_Solutions**

**1. Spring Core - Advanced Dependency Injection**

This section demonstrates use of @Qualifier to handle multiple bean injections.

Code Snippet:

@Configuration  
public class AppConfig {  
 @Bean  
 public Vehicle car() {  
 return new Car();  
 }  
  
 @Bean  
 public Vehicle bike() {  
 return new Bike();  
 }  
  
 @Bean  
 public TransportService transportService(@Qualifier("bike") Vehicle vehicle) {  
 return new TransportService(vehicle);  
 }  
}

**2. Spring Data JPA - OneToMany Mapping**

This demonstrates a OneToMany relationship between Department and Employee entities.

Entity Snippet:

@Entity  
public class Department {  
 @Id  
 private Long id;  
 private String name;  
  
 @OneToMany(mappedBy = "department")  
 private List<Employee> employees;  
}

**Output Screenshot**

