

Date: ___/___/___

Q.16) Explain Integration of Spring Boot with Hibernate.

Ans:- Steps :-

- 1) Should have MySQL installed and table should be ready
- 2) Create spring boot project with dependencies JPA, web, devtools and MySQL
- 3) Once project downloaded extract and import into eclipse
- 4) Once importing is done we can check pom.xml file
- 5) Then, As we already have database ready we need create an entity class
- 6) Configure hibernate in spring boot
- 7) Add configuration into properties file
These are fixed always only values we need to change
- 8) Now we need to create a controller class and add hibernate client code in it so data will be fetched.
- 9) Run a project and objects from database will display on Browser.

Q.17) A] Explain AOP in details

Ans:- Aspect Oriented Programming (AOP) breaks the program logic into distinct part (called concern). It is used to increase modularity by cross-cutting concern.

A] (i) Cross-Cutting Concern

is a concern that can affect the whole application and should be centralized in one location in code as possible.

A] (ii) Why use AOP?

AOP provides the pluggable way to dynamically add the additional concern before, after or around the actual logic.

A] (iii) Where use AOP?

- i] AOP allows users to implement custom aspects.
- ii] to provide declarative enterprise service such as declarative transaction management.

A] (iv) What is advice?

Advice represents an action taken by an aspect at a particular join point.

A] (v) Aspect

It is a class that contains advices.

A] (vi) Different types of advices

- Before Advice :-
It executes before a join point
- After Advice :-
It executes after a join point completes normally.
- Around advice :-
It executes before and after join point
- Throwable advice :-
It executes if method exists by throwing an exception.

A] (vii) What is Join Point

Join point is any point in our program such as method execution, exception handling field access etc.