**Hands on 4**

**Difference between JPA, Hibernate and Spring Data JPA**

# JPA-

JPA is a standard/specification defined by Java like an interface.

It tells us how to persist Java objects (entities) into relational databases.

But JPA itself is not an implementation — it cannot do any database work on its own.

# Hibernate-

Hibernate is a library that implements the JPA specification.

It also provides extra features beyond JPA (e.g., caching, custom query language).

It interacts with the database using SQL under the hood, but use Java objects.

# Spring Data JPA-

It is part of the Spring Framework which sits on top of JPA (and Hibernate) and simplifies database operations.

Removes boilerplate code — no need to write basic queries or implementations.

Provides custom repository interfaces and query creation by method names.