## Difference Between JPA, Hibernate, and Spring Data JPA

## Application.java

package com.cognizant.demoApplication;  
  
import com.cognizant.demoApplication.model.Employee;  
import com.cognizant.demoApplication.service.EmployeeService;  
import jakarta.annotation.PostConstruct;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
  
import java.util.List;  
  
@SpringBootApplication  
public class Application {  
 @Autowired  
 private EmployeeService employeeService;  
  
 public static void main(String[] args) {  
 SpringApplication.run(Application.class, args);  
 }  
 @PostConstruct  
 public void runatStartup(){  
 employeeService.addemployee(new Employee("Sanjai",5000.00));  
 employeeService.addemployee(new Employee("Sakthi",70000.00));  
 List<Employee> employees = employeeService.getAllEmployees();  
 employees.forEach(System.out::println);  
 }  
  
  
}

## Employee.java

package com.cognizant.demoApplication.model;  
  
import jakarta.persistence.Entity;  
import jakarta.persistence.GeneratedValue;  
import jakarta.persistence.GenerationType;  
import jakarta.persistence.Id;  
  
@Entity  
public class Employee {  
 @Id  
 @GeneratedValue(strategy = GenerationType.IDENTITY)  
 private Long id;  
 private String name;  
 private double salary;  
  
 public Employee() {  
 }  
 public Employee( String name, double salary) {  
 this.name = name;  
 this.salary = salary;  
 }  
  
  
  
 public Long getId() {  
 return id;  
 }  
  
 public void setId(Long id) {  
 this.id = id;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
  
 public double getSalary() {  
 return salary;  
 }  
  
 public void setSalary(double salary) {  
 this.salary = salary;  
 }  
 @Override  
 public String toString() {  
 return "Employee{" +  
 "id=" + id +  
 ", name='" + name + '\'' +  
 ", salary=" + salary +  
 '}';  
 }  
}

## EmployeeRepository.java

package com.cognizant.demoApplication.repository;  
  
import com.cognizant.demoApplication.model.Employee;  
import org.springframework.data.jpa.repository.JpaRepository;  
  
public interface EmployeeRepository extends JpaRepository<Employee,Long> {  
}

## EmployeeService.java

package com.cognizant.demoApplication.service;  
  
import com.cognizant.demoApplication.model.Employee;  
import com.cognizant.demoApplication.repository.EmployeeRepository;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Service;  
  
import java.util.List;  
  
@Service  
public class EmployeeService {  
 @Autowired  
 private EmployeeRepository employeeRepository;  
 public List<Employee> getAllEmployees(){  
 return employeeRepository.findAll();  
 }  
 public void addemployee(Employee employee){  
 employeeRepository.save(employee);  
 }  
  
}

# Output