EmployeeService.java:

@Service

public class EmployeeService {

private static final Logger LOGGER = LoggerFactory.getLogger(EmployeeService.class);

@Autowired

private EmployeeRepository employeeRepository;

@Transactional

public Employee get(int id) {

LOGGER.info("Start");

return employeeRepository.findById(id).get();

}

@Transactional

public void save(Employee employee) {

LOGGER.info("Start");

employeeRepository.save(employee);

LOGGER.info("End");

}

}

DepartmentService.java:

@Service

public class DepartmentService {

private static final Logger LOGGER = LoggerFactory.getLogger(DepartmentService.class);

@Autowired

private DepartmentRepository departmentRepository;

@Transactional

public Department get(int id) {

LOGGER.info("Start");

return departmentRepository.findById(id).get();

}

@Transactional

public void save(Department department) {

LOGGER.info("Start");

departmentRepository.save(department);

LOGGER.info("End");

}

}

testGetEmployee():

private static void testGetEmployee() {

LOGGER.info("Start");

Employee employee = employeeService.get(1);

LOGGER.debug("Employee: {}", employee);

LOGGER.debug("Department: {}", employee.getDepartment());

LOGGER.info("End");

}

testAddEmployee():  
private static void testAddEmployee() {

LOGGER.info("Start");

Employee employee = new Employee();

employee.setName("Ravi Kumar");

employee.setSalary(40000.0);

employee.setPermanent(true);

employee.setDateOfBirth(Date.valueOf("1995-12-01"));

Department dept = departmentService.get(1); // assuming 1 exists

employee.setDepartment(dept);

employeeService.save(employee);

LOGGER.debug("Saved Employee: {}", employee);

LOGGER.info("End");

}

testUpdateEmployee:  
private static void testUpdateEmployee() {

LOGGER.info("Start");

Employee employee = employeeService.get(2); // assuming 2 exists

Department newDept = departmentService.get(2); // use different department id

employee.setDepartment(newDept);

employeeService.save(employee);

LOGGER.debug("Updated Employee: {}", employee);

LOGGER.info("End");

}