**Hands on 6**

**Find a country based on country code** 

* Create new exception class CountryNotFoundException in com.cognizant.spring-learn.service.exception
* Create new method findCountryByCode() in CountryService with @Transactional annotation
* In findCountryByCode() method, perform the following steps:
  + Method signature

@Transactional

public Country findCountryByCode(String countryCode) throws CountryNotFoundException

* Get the country based on findById() built in method

Optional<Country> result = countryRepository.findById(countryCode);

* From the result, check if a country is found. If not found, throw CountryNotFoundException

if (!result.isPresent())

* Use get() method to return the country fetched.

Country country = result.get();

* Include new test method in OrmLearnApplication to find a country based on country code and compare the country name to check if it is valid.

    private static void getAllCountriesTest() {

        LOGGER.info("Start");

        Country country = countryService.findCountryByCode("IN");

  LOGGER.debug("Country:{}", country);

        LOGGER.info("End");

    }

* Invoke the above method in main() method and test it.

**NOTE:** SME to explain the importance of @Transactional annotation. Spring takes care of creating the Hibernate session and manages the transactionality when executing the service method.

