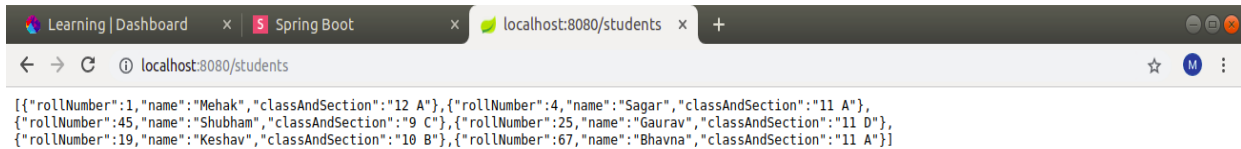


1. Create a Restful API using Spring Boot for Student.(1 Mark)



2. Run Spring Boot Application with all the three ways (1 Mark)

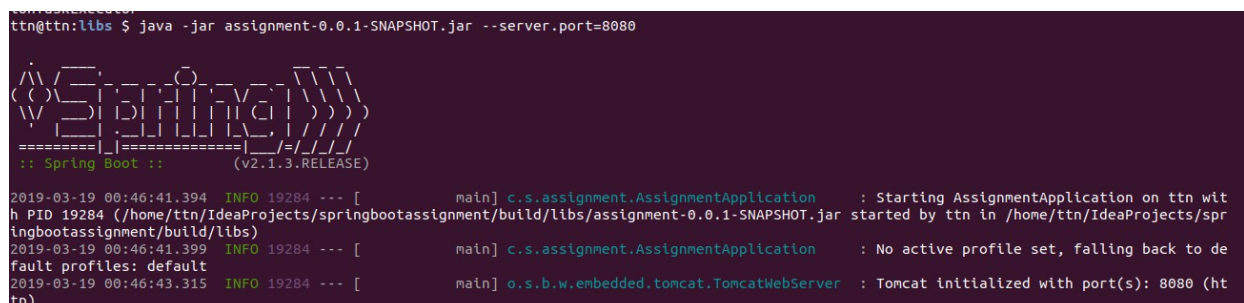
- Run the Main java class marked with @SpringBootApplication Annotation and contains main method as follows:



- Execute the bootRun Gradle tasks:



- Create an Executable jar with the help of bootJar Gradle task. Now execute the jar files using command below:



3. Create Bean User containing two field username and password with Spring Context File (1 Mark)



```

1 <?xml version="1.0" encoding="UTF-8" ?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4       xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">
5
6     <bean class="com.springboot.assignment.Question3.User" id="user">
7       <property name="username" value="adlakamehak98"/>
8       <property name="password" value="12345@ttn"/>
9     </bean>
10
11 </beans>

```

4. Create a Bean Database with two fields port and name and Access its values using application.properties (1 Mark)

```

@Component
public class Database {

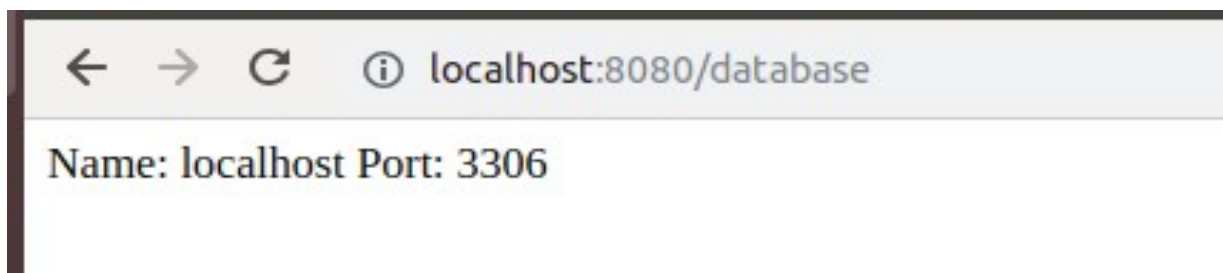
    @Value("${app.name}")
    String name;

    @Value("${app.port}")
    String port;

    public String getName() {
        return name;
    }

    public String getPort() {
        return port;
    }
}

```



5. Configure environment specific values form Database Bean (2 Marks)

```

ttn@ttn:libs $ java -jar assignment-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev
=====
:: Spring Boot ::
(v2.1.3.RELEASE)

```

6. Apply Logging wherever you feel is necessity (1 Mark)

```

2019-03-21 20:34:59.876 INFO 12832 --- [nio-8080-exec-1] c.s.assignment.Service.DatabaseService : getting database name and port from DatabaseService
2019-03-21 20:35:05.917 INFO 12832 --- [nio-8080-exec-2] c.s.assignment.Service.StudentService : adding data in Student through StudentService
2019-03-21 20:35:12.327 INFO 12832 --- [nio-8080-exec-4] c.s.assignment.Service.StudentService : getting bootstrapped data in Student from StudentService

```

7. Bootstrap Data for Student Domain (3 Marks)

```
//Bootstrap Data for Student Domain (3 Marks)
```

```
@Component
```

```
public class StudentBootstrap {
```

```
    @Autowired
```

```
    StudentRepository studentRepository;
```

```
    @EventListener(ApplicationStartedEvent.class)
```

```
    public void init() {
```

```
        Iterator<Student> iterable = studentRepository.findAll().iterator();
```

```
        if (!iterable.hasNext()) {
```

```
            for (int i = 1; i <= 10; i++) {
```

```
                Student student = new Student(i, name: "Name "+i, classAndSection: "Class "+i);
```

```
                studentRepository.save(student);
```

```
            }
```

```
        }  
        System.out.println("Your Application is up and running");
```

```
    }
```

```
}
```