# Lab 3.1

## Dependency Injection

- In your project’s application.properties file add the following entries

```
message=Hello from the ${controller}
controller=StudentController
```

- In the class StudentController;
  - Annotate the class as a RestController tied to a RequestMapping of “/student”
  - Annotate the property “message” with the spring @Value annotation and an EL expression of “${message}“. This should pick  up the message literal text via the spring Environment Object that you placed in your properties file
  - Annotate the method getMessage() with @GetMapping(“msg”), this means it is tied to the url “/student/msg”

# Lab 3.1

## Dependency Injection

In the same Controller class,

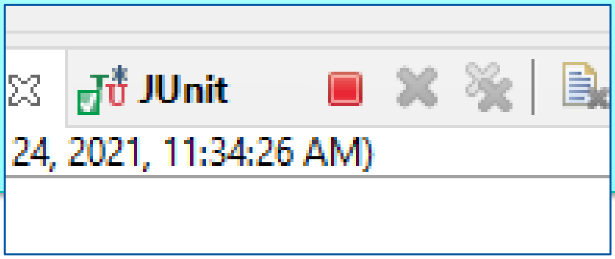
Inject in the StudentService class using @Inject

Add a new method as below;

```
public Collection<Student> getAll() {
    return studentService.getAllStudents();
}
```

Annotate the method with @GetMapping, this means that the method is tied to an HTTP to the url /student and will return a Collection of student Objects that will be transformed into Json

Launch your Spring boot Application, if it was already running stop it before restarting (click the red square)



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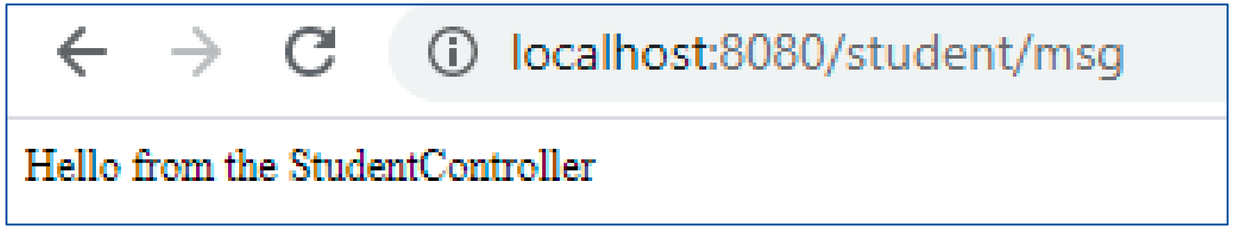
# Lab 3.1

## Dependency Injection

In a browser navigate to:

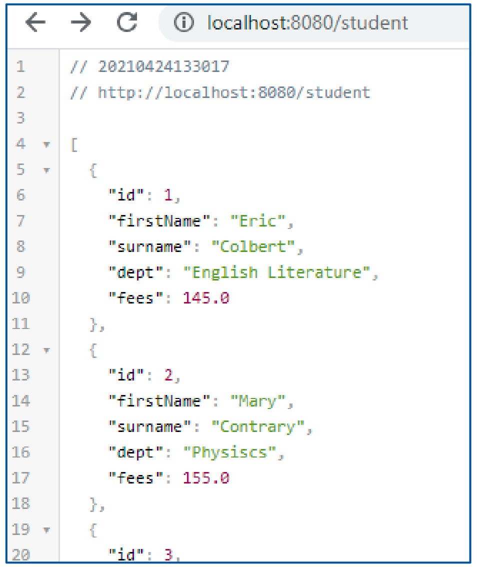
- localhost:8080/msg



```
localhost:8080/student/msg

Hello from the StudentController
```

- localhost:8080



```
localhost:8080/student

// 20210424133017
// http://localhost:8080/student

[
  {
    "id": 1,
    "firstName": "Eric",
    "surname": "Colbert",
    "dept": "English Literature",
    "fees": 145.0
  },
  {
    "id": 2,
    "firstName": "Mary",
    "surname": "Contrary",
    "dept": "Physiscs",
    "fees": 155.0
  },
  {
    "id": 3,
```

## Lab 3.1

### Dependency Injection

- **In your StudentApplication class add one more method**

```
@GetMapping
RedirectView home() {
    return new RedirectView("student/msg");
}
```

- **This is a redirect Example using org.springframework.web.servlet.view.RedirectView**

- **Re launch your Spring Boot application and navigate to http://localhost:8080 and you should be redirected to http://localhost:8080/student/msg**