

A) All tasks successfully solved. Two problems I have to solve not mentioned in lesson -

1. To enable the field oriented router I should add the message with header matching to with field name `orderType` and value of `INTERNATIONAL` or `DOMESTIC`.

2. Router class return as a string name of the channel. I first tried Autowire two channels and depending on amount send the message to that channel. Then I figure it out that I have to return only the channel name.

After two this tricks hole lab is working fine.

These are my results:

```
2022-11-19 13:27:24.073 INFO 96824 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-11-19 13:27:24.079 INFO 96824 --- [main] esb.ESBApplication : Started ESBApplication in 3.744 seconds (JVM running for 4.107)
2022-11-19 13:27:26.945 INFO 96824 --- [nio-8080-exec-1] o.a.c.c.f.[Tomcat].[localhost].[/] : Initializing Spring FrameworkServlet 'dispatcherServlet'
2022-11-19 13:27:26.945 INFO 96824 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started
2022-11-19 13:27:26.956 INFO 96824 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization completed in 11 ms
Order{orderNumber='334', amount=120.0, orderType=DOMESTIC}
WarehouseService: checking order Order{orderNumber='334', amount=120.0, orderType=DOMESTIC}
2022-11-19 13:27:27.087 INFO 96824 --- [nio-8080-exec-1] esb.OrderRouter : Normal shipping was performed
shipping: Order{orderNumber='334', amount=120.0, orderType=DOMESTIC}
Order{orderNumber='334', amount=180.0, orderType=DOMESTIC}
WarehouseService: checking order Order{orderNumber='334', amount=180.0, orderType=DOMESTIC}
2022-11-19 13:27:27.106 INFO 96824 --- [nio-8080-exec-2] esb.OrderRouter : NextDayShipping was performed
shipping: Order{orderNumber='334', amount=180.0, orderType=DOMESTIC}
Order{orderNumber='355', amount=185.0, orderType=INTERNATIONAL}
WarehouseService: checking order Order{orderNumber='355', amount=185.0, orderType=INTERNATIONAL}
shipping: Order{orderNumber='355', amount=185.0, orderType=INTERNATIONAL}
```

```
Shipping Application receiving order: Order{orderNumber='334', amount=120.0}
Shipping Application receiving order: Order{orderNumber='334', amount=180.0}
Shipping Application receiving order: Order{orderNumber='355', amount=185.0}
Shipping Application receiving order: Order{orderNumber='334', amount=120.0}
Shipping Application receiving order: Order{orderNumber='334', amount=180.0}
Shipping Application receiving order: Order{orderNumber='355', amount=185.0}
Shipping Application receiving order: Order{orderNumber='334', amount=120.0}
Shipping Application receiving order: Order{orderNumber='334', amount=180.0}
Shipping Application receiving order: Order{orderNumber='355', amount=185.0}
```

```
Warehouse Application receiving order: Order{orderNumber='334', amount=120.0}
Warehouse Application receiving order: Order{orderNumber='334', amount=180.0}
Warehouse Application receiving order: Order{orderNumber='355', amount=185.0}
Warehouse Application receiving order: Order{orderNumber='334', amount=120.0}
Warehouse Application receiving order: Order{orderNumber='334', amount=180.0}
Warehouse Application receiving order: Order{orderNumber='355', amount=185.0}
Warehouse Application receiving order: Order{orderNumber='334', amount=120.0}
Warehouse Application receiving order: Order{orderNumber='334', amount=180.0}
Warehouse Application receiving order: Order{orderNumber='355', amount=185.0}
```

b)

I hereby declare that this submission is my own original work and to the best of my knowledge it contains no materials previously published or written by another person. I am aware that submitting solutions that are not my own work will result in an NC of the course.

I am aware that I am not allowed to share solutions with other students.

I am aware that if I submit only parts of this lab that points will be subtracted. I am aware that if my lab submission does not contain this readme.txt file that I do not get points for this lab.

Khassangali Gapparov