LAB- Using ServiceActivator in EI

In this lab you will be understanding how to use ServiceActivator in spring integration

In this lab, you will be working on **01-using-serviceactivator-start** project

Step1

In this step, you will understand how to use service activator to invoke java logic

1) Open Order.java inside com.way2learnonline.domain and observe it
2) Open OrderProcessServiceImpl and observe that there is a method to process Order. Observe that return type is void

3) We want to invoke processOrder(Order) when ever message comes into **orderschannel.**

Open 01service-activator-demo.xml and import **int** namespace

Then, configure a channel as shown below :

```
<int:channel id="orderschannel" />
```

Now configure a service activator such that it should call orderProcessServiceImpl.processOrder(order) when ever message comes into orderschannel.

It should look like below :

```
<int:service-activator input-channel="orderschannel"
                       ref="orderProcessServiceImpl"
                       method="processOrder" />
```

4) Open ServiceActivatorDemo.java and observe that we have already given some code to create order Object.

Now create a Message with Order object as payload as shown below :
```
Message<Order> orderMessage=
                MessageBuilder.withPayload(order)
                              .build();
```

Get the reference of orderchannel as shown below :

```
MessageChannel messageChannel=
                context.getBean("orderschannel",MessageChannel.class);
```

Finally, send a message as shown below :

```
messageChannel.send(orderMessage);
            System.out.println("Sent 1");
```

Now run the class and observe that order is processed.

Congratulations !! You know   how to use a ServiceActivator