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Spring Boot 9AM

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*) ActiveMQ:-

=> It is a mediator server.

=> It will transfer data using Protocol TCP (Port:61616).

=> GUI (HTTP 8161) that provide information
of sent messages, Consumer, Queue/Topic Names..etc

=> Both Producer and Consumer communicates with MOM s/w only.

=> Data stored in a Destination(Queue/Topic).

=> Producer destination name and consumer destination must be same.
if destination names are not matching then NO ERROR/NO EXCEPTION/NO
OUTPUT.

=> On Receiving message to Destination, MOM s/w will send message to
Consumer.

Consumer App , need not to make any request (it is always
listening).
on time link is required.

Q) How can we send/trasfer Object/Collection data?

A) We can not send Java object as it is. It must be converted into
one global Format String(JSON/XML).

JACKSON API

*) ObjectMapper (C)

=> readValue__(json):object

=> writeValue__(obj):json

==Example Converter=====

```
package in.nareshit.raghu.service;
```

```
import com.fasterxml.jackson.databind.ObjectMapper;
```

```
import in.nareshit.raghu.model.CircInfo;
```

```
public class MessageConverter {
```

```
    public static String convertCircInfo(CircInfo c) {  
        String data = null;  
        try {  
            data = new ObjectMapper()  
                .writeValueAsString(c);  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
        return data;  
    }  
}
```

==Runner class=====

```
package in.nareshit.raghu.runner;
```

```
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.boot.CommandLineRunner;
```

```

import org.springframework.stereotype.Component;

import in.nareshit.raghu.model.CircInfo;
import in.nareshit.raghu.service.MessageConverter;
import in.nareshit.raghu.service.ProducerService;

@Component
public class TestProducerRunner implements CommandLineRunner {

    @Autowired
    private ProducerService ps;

    public void run(String... args) throws Exception {
        ps.send("my-q1",
            MessageConverter.convertCircInfo(
                new CircInfo("ABC15246", "ABC", "IND",
251, 252, "IND-WINNER")))
        );
        System.out.println("SENT...");
    }

}

```