

Short Answer

Answer the following questions with complete sentences in your own words. You are encouraged to conduct your own research online or through other methods before answering the questions. If you research online, please consult multiple sources before you write down your answers. You are expected to be able to explain your answers in detail

1. What is JMS?
2. What is AMQP?
3. What are exchange, binding, and queue in AMQP?
4. What are the different exchange types in AMQP? Explain their differences.
5. What is RabbitMQ?
6. What are the different parameters that you can set in the `@Scheduled` annotation? What are their usages?

Coding Questions

Write code in Java to solve following problems. Please write your own answers. You are highly encouraged to present more than one way to answer the questions. Please follow best practice when you write the code so that it would be easily readable, maintainable, and efficient. Clearly state your assumptions if you have any. You may discuss with others on the questions, but please write your own code.

1. Install RabbitMQ and create a topic exchange and a queue. Using RabbitTemplate, create a message producer application and a message consumer application, send a request using the producer and receive it using the consumer. Please submit your code (RabbitMQ Spring Boot applications) along with screenshots taken from localhost:15672