

- Describe the following three methods of data sharing between software applications: the file-based method, the use of a common database, and sockets. What are the advantages and the drawbacks of these methods?
- Explain the concept of blocked and non-blocked TCP sockets. Explain the concept of blocked and non-blocked TCP sockets. How can you make a TCP socket non-blocked?
- Describe the key features and advantages of Protocol Buffers (protobuf) for data serialization. Discuss the steps involved in integrating Protocol Buffers into a programming language or framework of your choice. Explain the role of message definitions (.proto files) in protobuf integration and how they are used to generate code.
- List and describe five advanced features of the gRPC technique.
- Introduce the Java RMI software integration technique. What is the purpose of the registry? Compare this method with the socket-based integration.
- Describe the structure of an XML-RPC request and response message. How does XML-RPC handle data types and data serialization?
- Describe the main features of web services. Registry, WSDL, UDDI, etc.
- What are the differences between JAX_RS and JAX_WS web services?
- What does “Service Oriented Architecture” mean? What are the differences between the traditional techniques? What are the advantages of the reusable software components?
- What does “Interface and Payload semantics” mean? Where we are using Payload semantics in software integration?
- What does “Integration and Software Architecture mean?”
- Describe the term “loose coupling”.
- “Loose Versus Tight Coupling”. Show the learned 5 factors (TABLE 2.1)
- Describe the main features of “Corba” systems.

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