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**University Institute of Information Technology**

Course Code.: **CS-597** Course Title: **Cyber Security**

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**Class Task**

You work for a company that handles sensitive information, such as financial data and personal information of clients. The company wants to implement a secure communication system between its employees and clients, to ensure the confidentiality and integrity of the information exchanged. The company's IT department recommends using symmetric and asymmetric cryptography to secure the communication.

**Questions:**

1. Explain how symmetric cryptography can be used to secure the communication between employees and clients.
2. What is the key difference between symmetric and asymmetric cryptography?
3. How can asymmetric cryptography be used in addition to symmetric cryptography to enhance security?
4. What is the process of creating a secure communication channel using symmetric and asymmetric cryptography?