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The name of presenter: Professor Lei Xu

The topic of presentation: Cryptography in Blockchain

The date of presentation: Oct-2-2019

Questions:

1. In the asymmetric key cryptography, there is the picture in the presentation where a user has both public and private keys. If it is signed with a private key, and verified with a public key, how it is known that the public key belongs to the user who (*in the presentation Alice*) has sent? In other words, how the system knows or calculates that the public key belongs to the user with some private key (*in the presentation to Alice*)?
2. What are the specific and unique characteristics of hash function in blockchains? In other words, what is a difference between widespread hash functions and the hash functions that are used in blockchains?