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**Blockchain EXP 10**

**Aim :** Demonstrate Hyperledger Fabric Demonstration

**Theory:**

Hyperledger Fabric is a permissioned blockchain framework developed as part of the Hyperledger project, under the Linux Foundation. It is specifically designed for enterprise applications where organizations need a secure and efficient system for conducting transactions and sharing data. Here are the key features and concepts of Hyperledger Fabric:

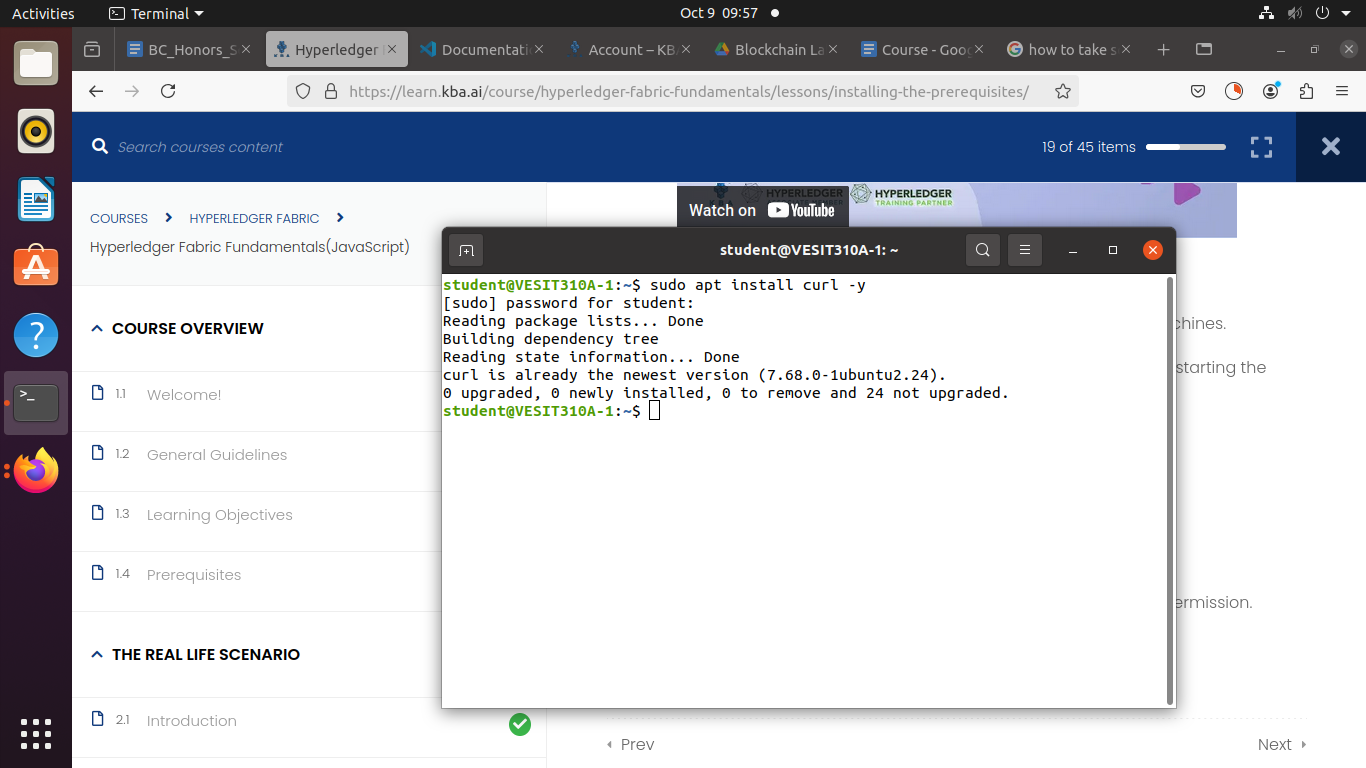
**Key Features**

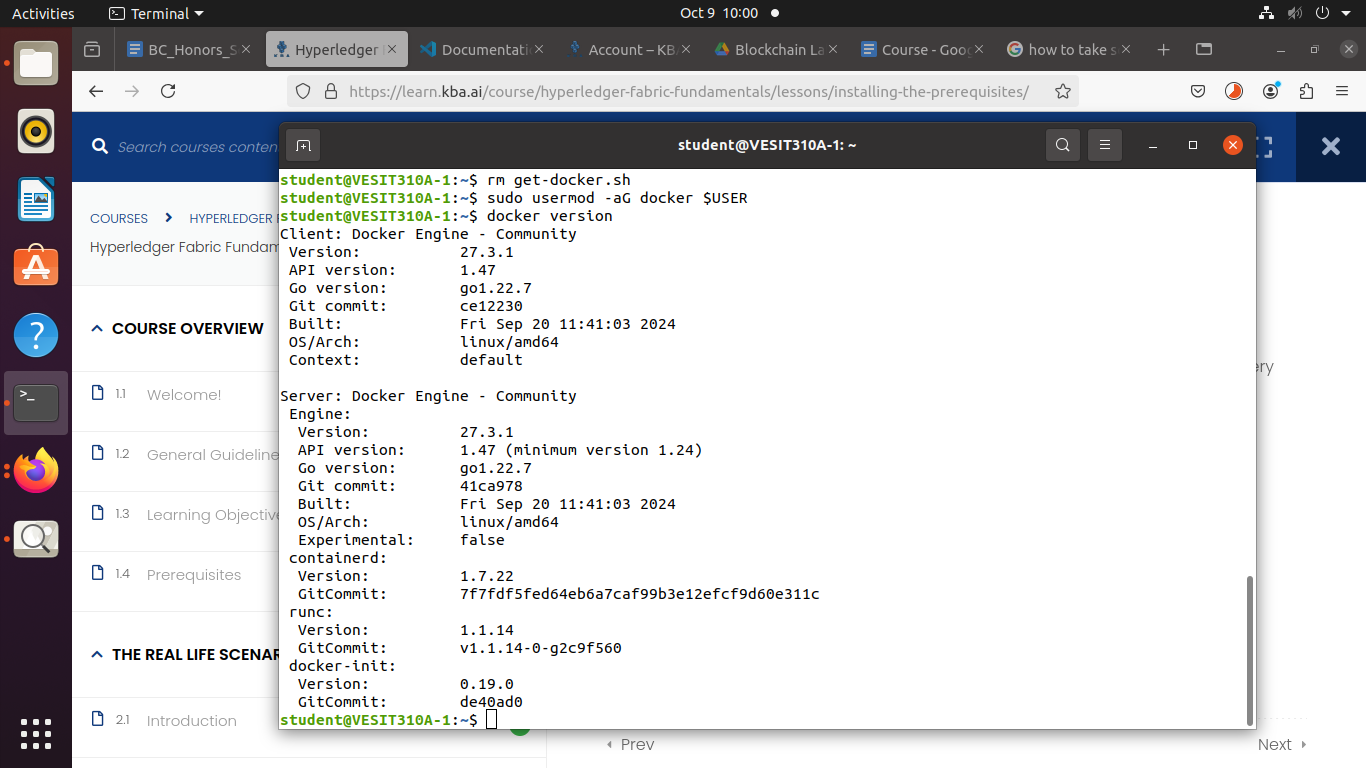
**Modular Architecture:** Hyperledger Fabric offers a highly modular architecture, enabling developers to customize various components such as consensus mechanisms and membership services to fit specific use cases.

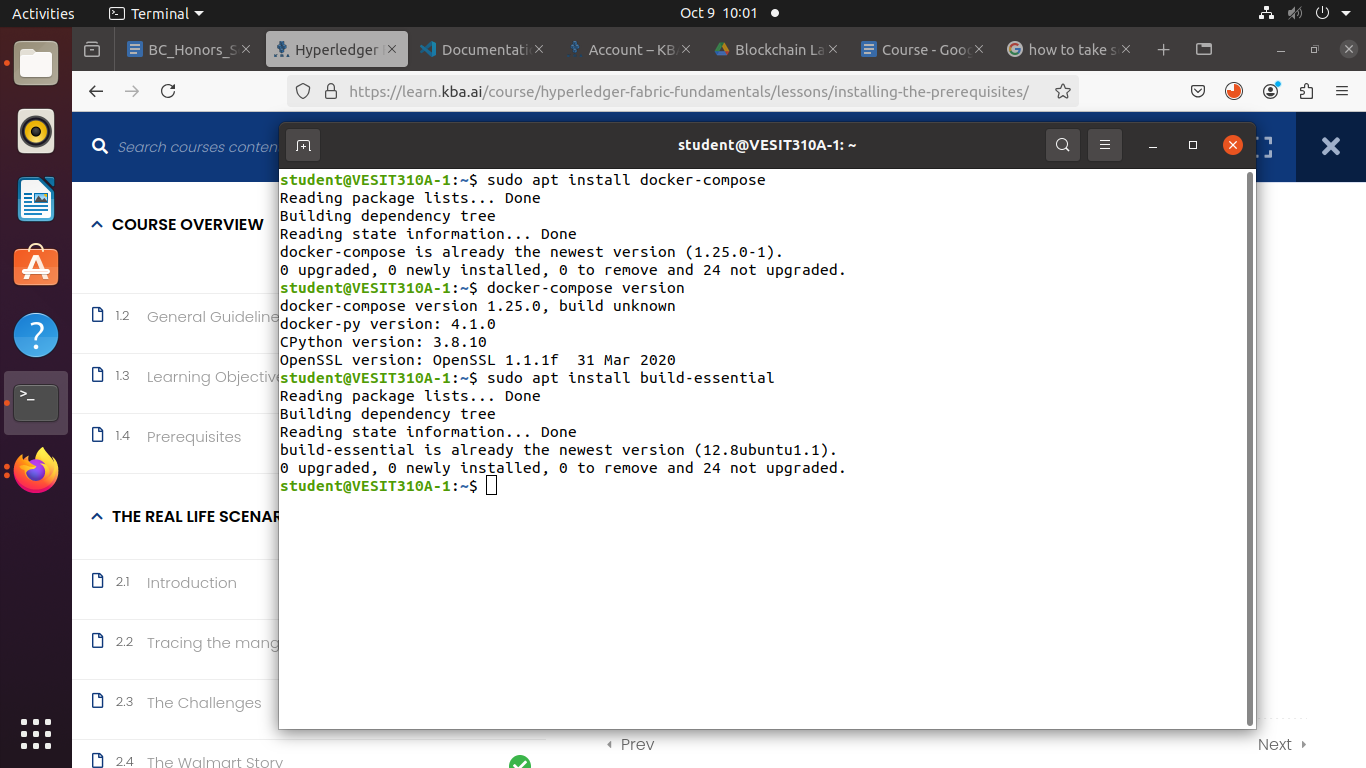
**Permissioned Network:** Unlike public blockchains, Hyperledger Fabric operates on a private or permissioned network, where all participants are authenticated and known to one another.

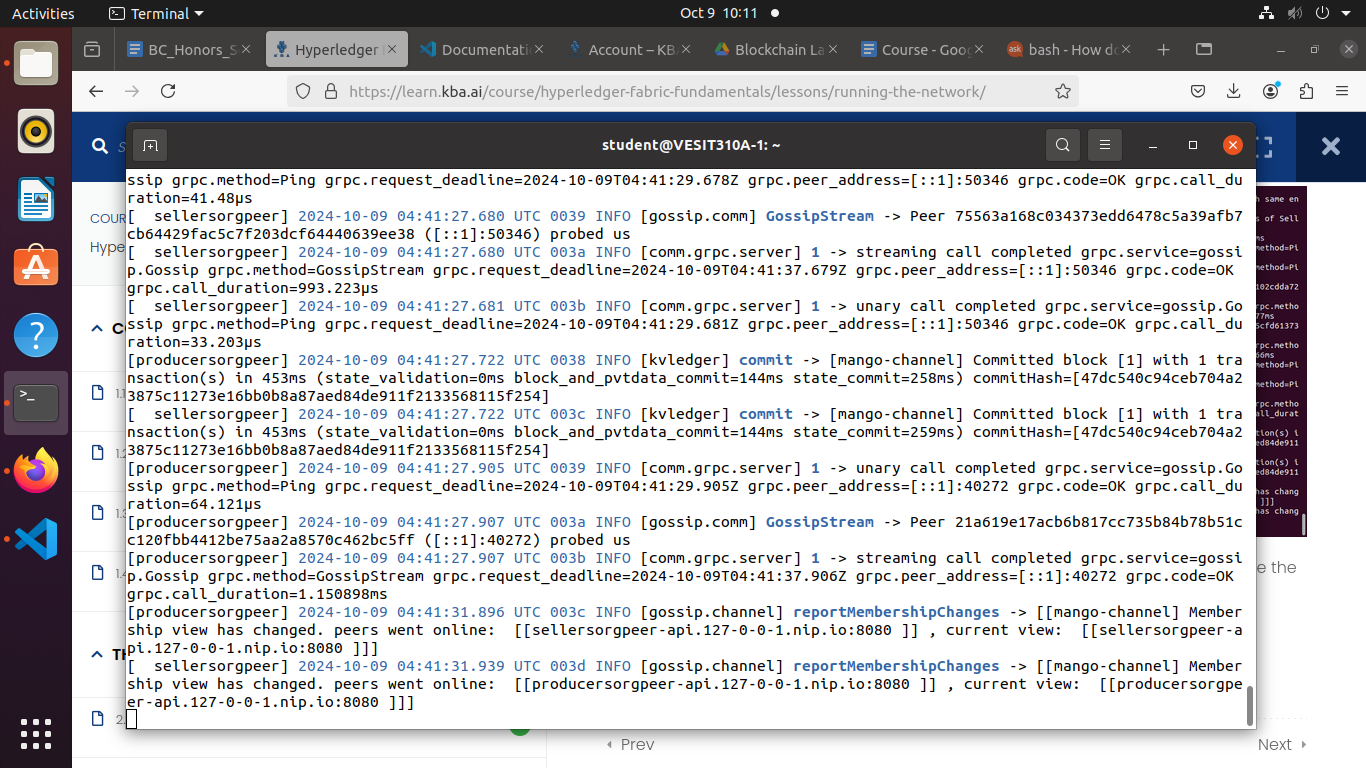
**Chaincode:** Smart contracts in Hyperledger Fabric are known as "chaincode." These can be written in Go, Java, or JavaScript and serve to implement business logic on the network.

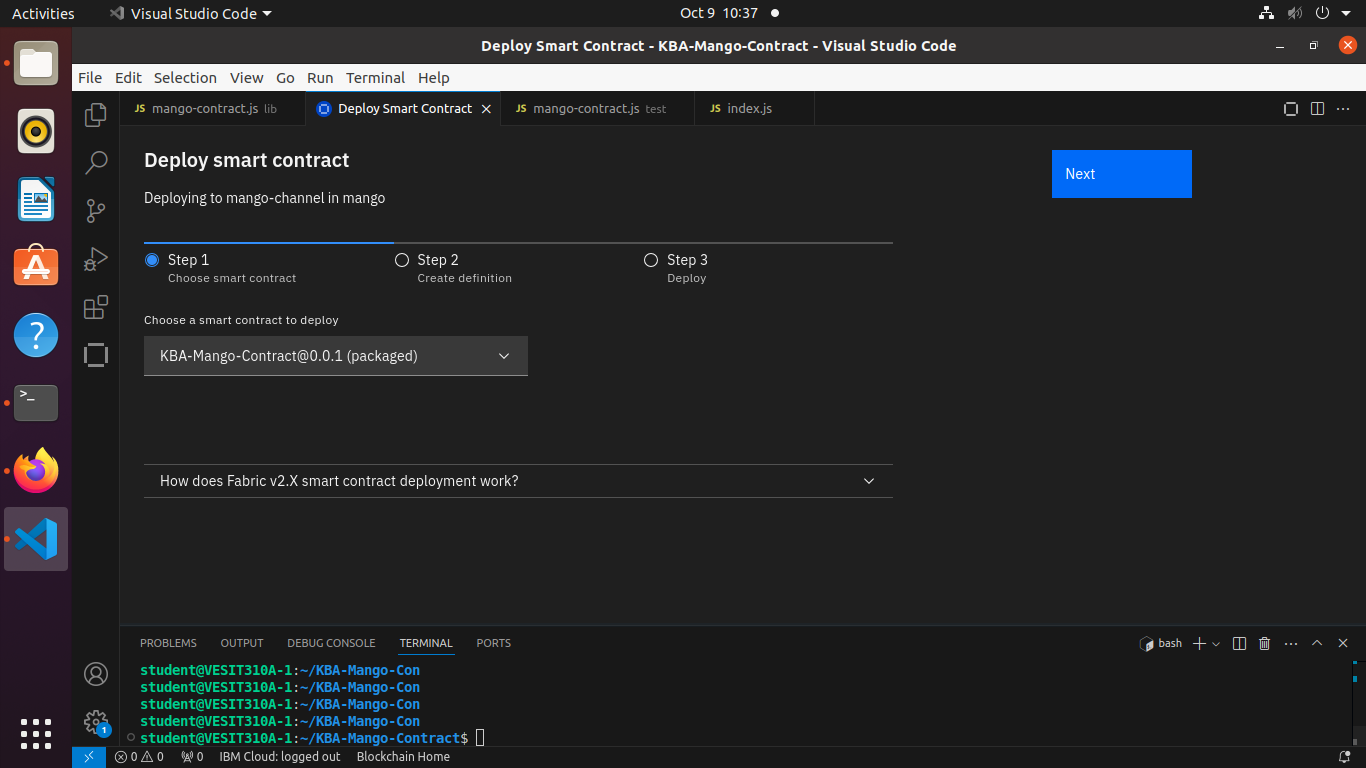
**Channels:** Fabric supports the creation of channels, which function as private sub-networks that allow specific participants to transact confidentially within the broader network.

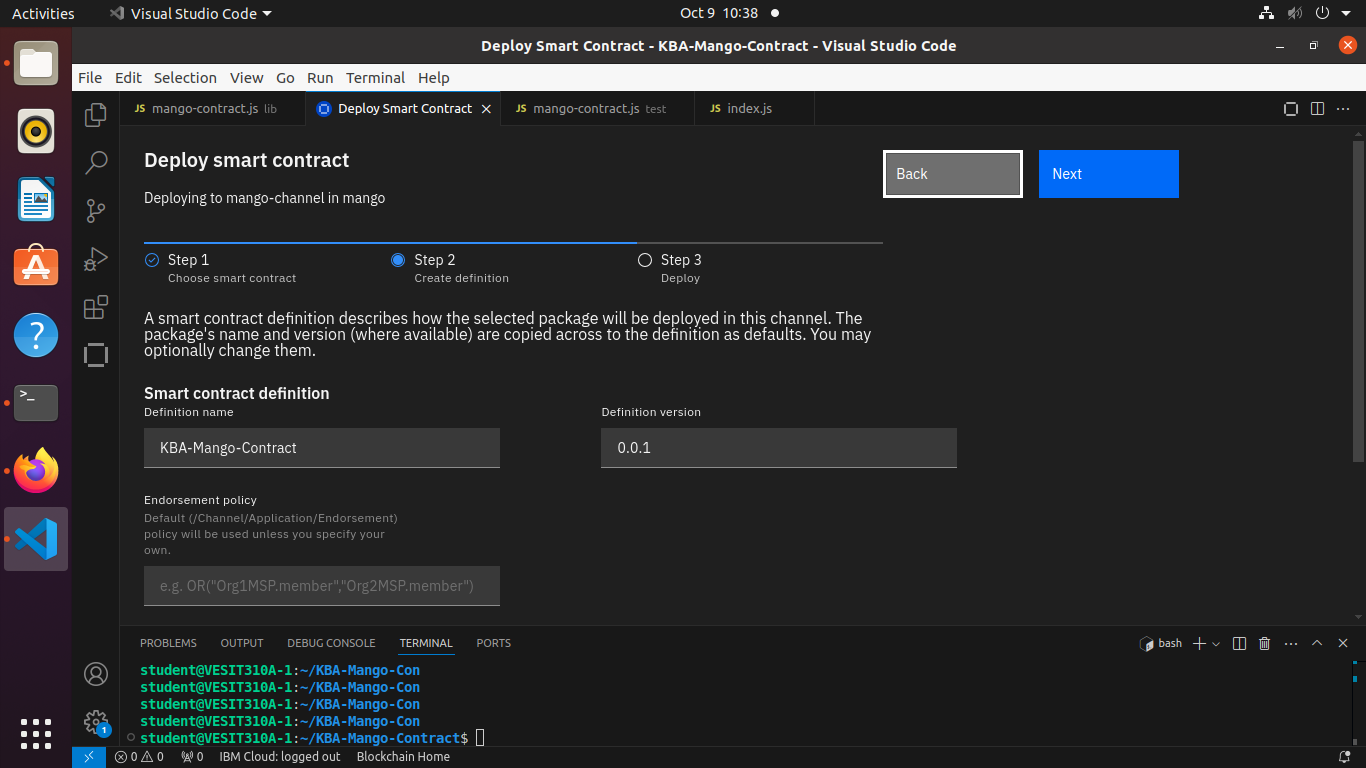


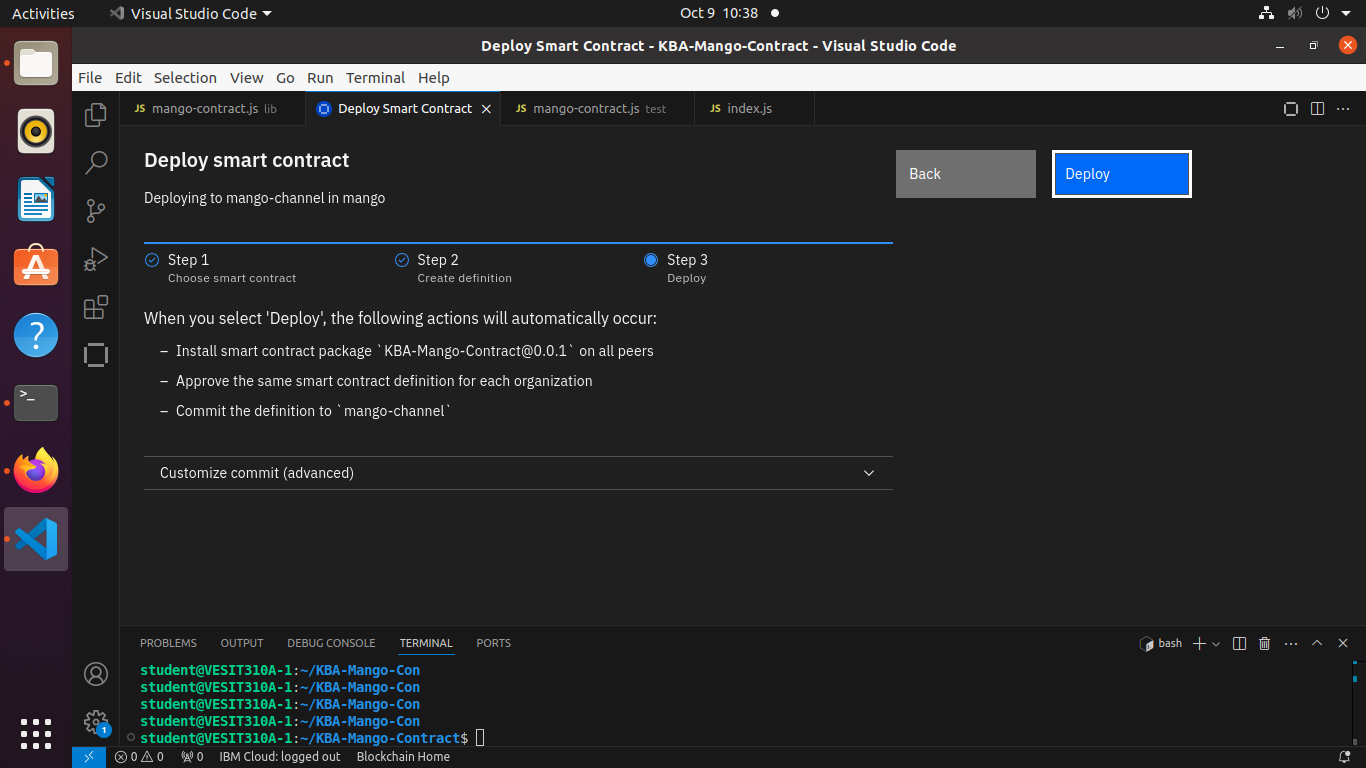


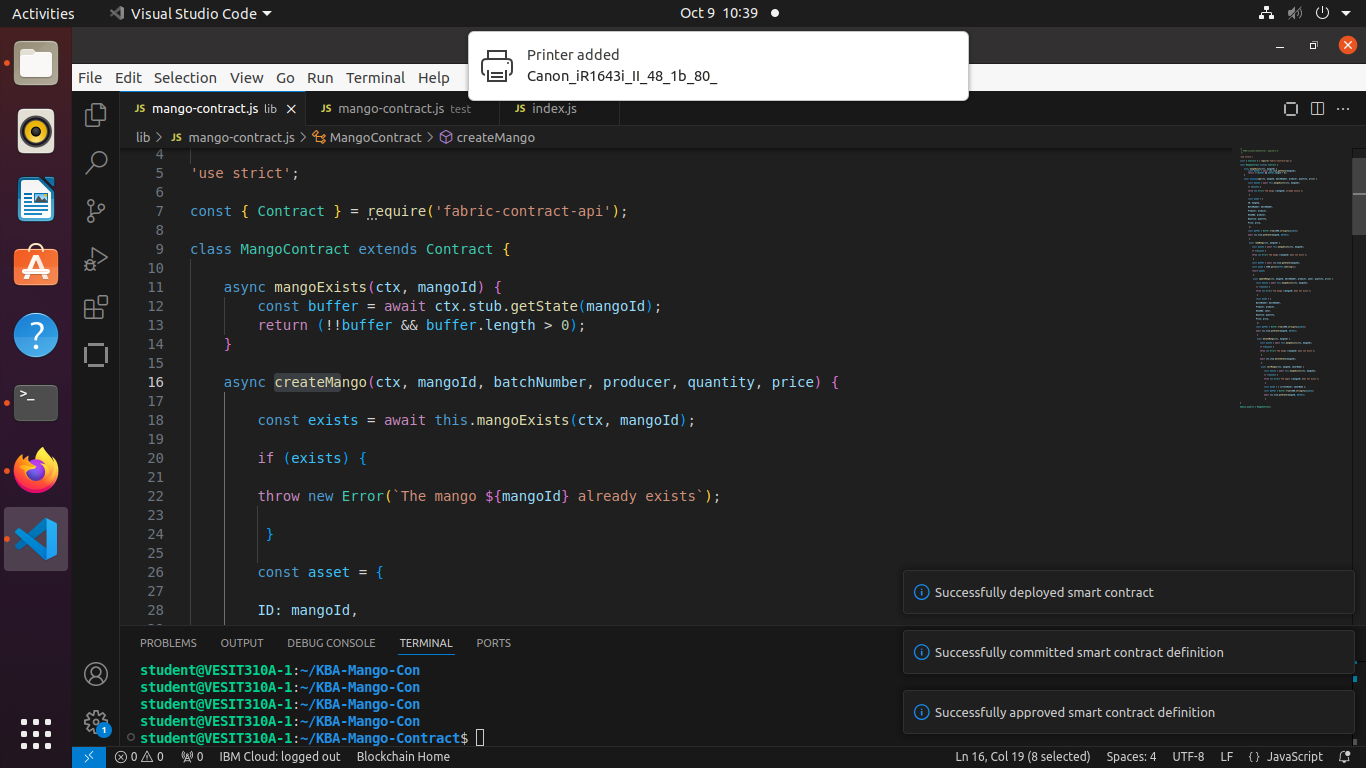




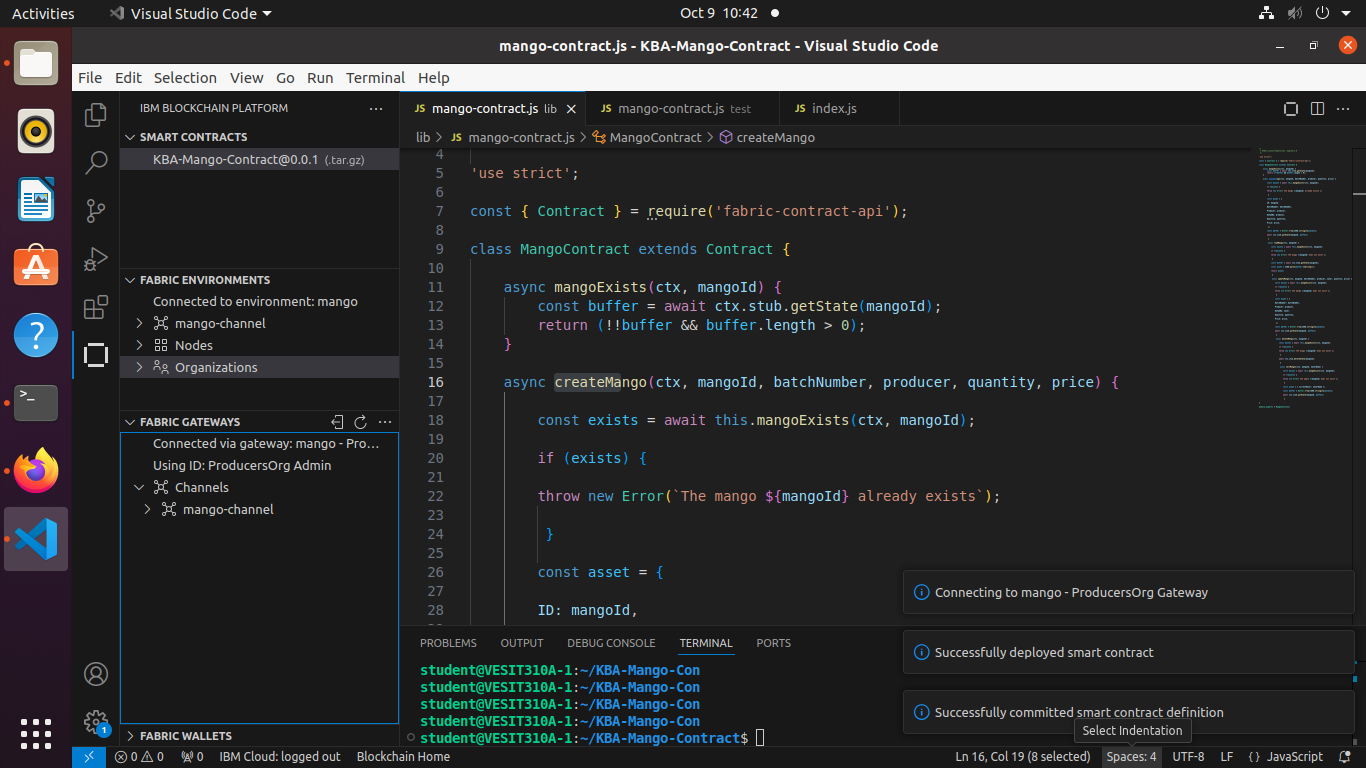




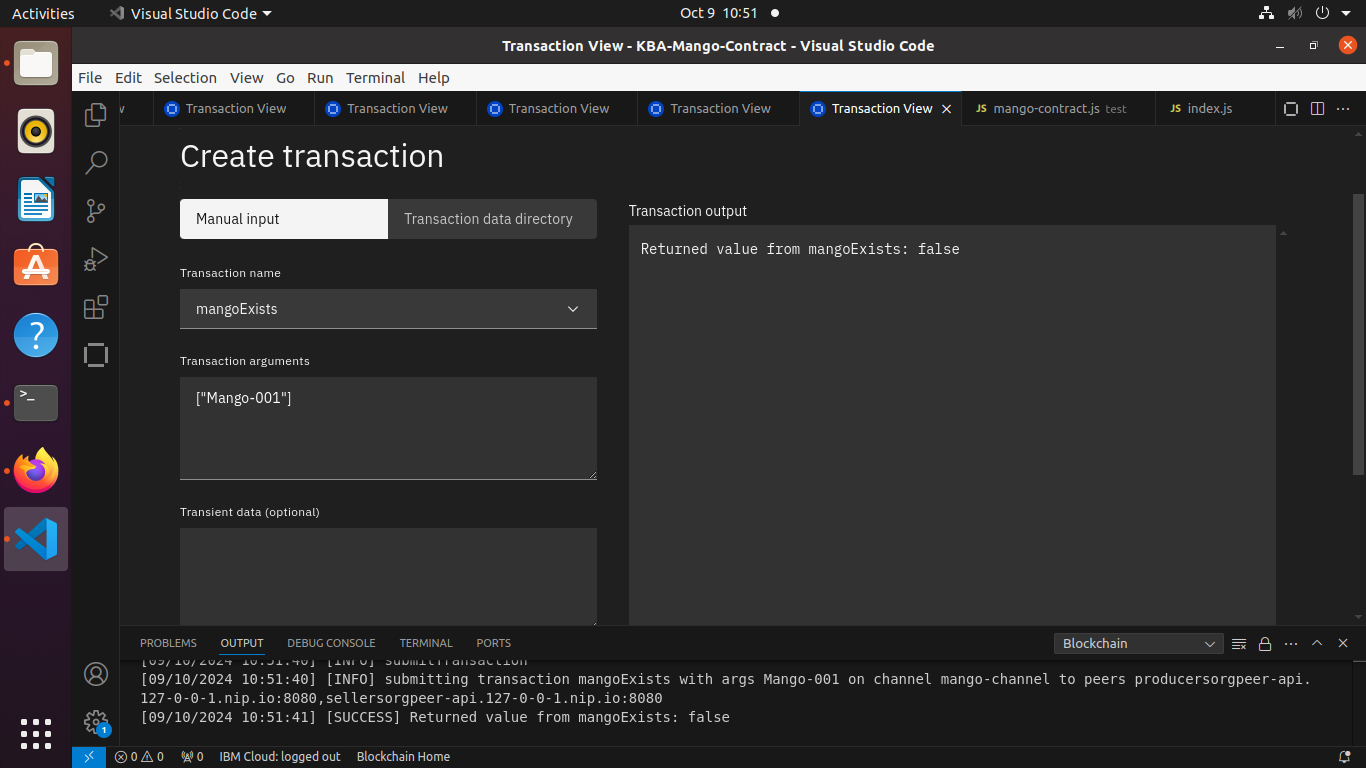


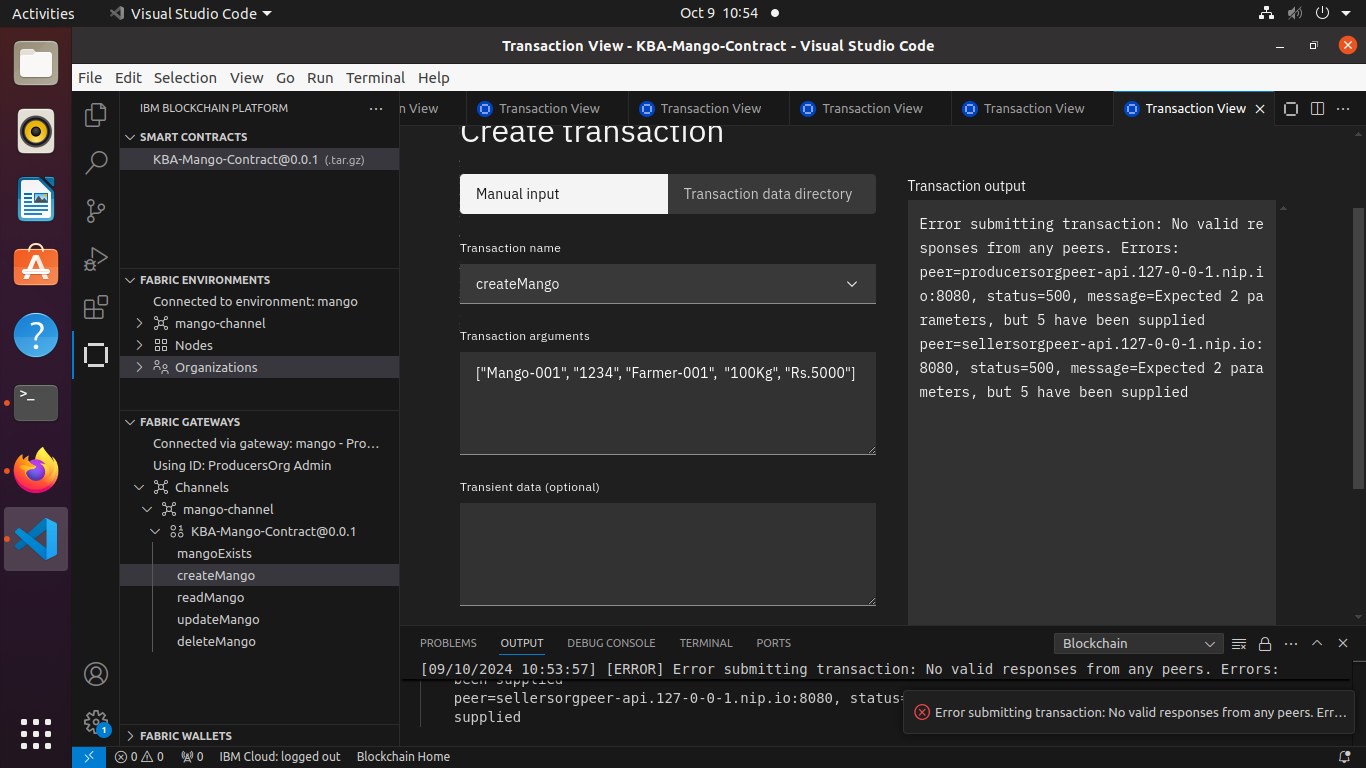


Create Smart Contract Definition



Transactions:





**Conclusion:** Thus , we deployed a contract using Hyperledger fabric.

