# Practical - 06.

* **Aim:** Write a program to create a Business Network using Hyperledger.

* **Theory:**

1] **Hyperledger Business Network.**

o Hyperledger fabric is a permissioned blockchain for enterprises.

o A business network defines.
  o Participants : Entities (eg. Customer, Merchant).
  o Assets: Things of value (eg. products)
  o Transactions: Actions that modify assets or trigger business logic.
  o Access control : Rules defining permissions.

2] **Steps to deploy:**

1. Install pre requisites - Node js, npm, docker, Hyperledger fabric , composer CLI.

2. Create network diary directory: using mkdir.

3. Define model file: Create .cto file for participants, assets.

4. Write script logic - Create .js file for transactions eg. purchase product.

5. Set access control - Create .acl file to define permissions.

6. Package network - composer archive create -t dir -n.

7. Install network on fabric peer - Composer network install -a ----.bna -c peer admin @ fabric network.

8. Start network : Composer network start - " -

9. Interact with network -
   - Add participants (customer, merchant)
   - Add assets (Products)
   - Submit transactions (purchase product).

\* CONCLUSION:

A hyperledger fabric business network was successfully created, including participants, assets and transactions. The network can securely manage business operations in a permissioned blockchain with transaction execution observable via composer Playground · or CLI.