Experiment. No. 17

title: write a program to create a Business Network using Hyperledger. objective: to learn hyperledger, Its application and implemen--tation. Theory ! Hyperledger composer is an extensive, open development toolset & framework to make developing blockchains application ns easier. The primary goal is to accelrate time to value & make it easier to integrate your blockchain application with their existing business system. You can use composer to rapidly develop use cases g deploy a block solutions in days. composer allows you to model your business network & integrate existing systems & data with your blockchain You can use Hyperledger composer to model business application. network containing your existing assests and the transaction related to them. key concepts of Hyperledger composer 1. Blockchain state storage - It stores all transaction that happens in your hyperledger composer application 2. Connection profiles: connection profiles to configuration JSON file which help composer to connect Hyperledger Fabric.

	3. Assests: Assests are tangible or intangible g
	services or property & stored in registeries
-	4. participants: participants are members of business
	network
	s. Identities & Io cards - participants can be associat
-	with an identity.
	6. Transactions - Transactions are the mechanism
	world state queries & can include variable parame
	for simple customisation.
_	7. Events - Events are defined in the model life
	8. Access control - Hyperledger is enterprise blockche
	& access control is core function of any business
	blockchain.
	Let's create First Hyperledger composer Application
	steps:
-	1. Chart il
	1. start Hyperledger composer online version of local
	click on Deploy a new business nlw.
	2. select empty business network.
	3. Fill basic information, select empty business network
-	that we have just applied the hardware - deserts business network
1	s. click on " . It applied click on connect-now but
	model file (chal')
-	6. click on " + Add a File " C
-	"Script File (* . js)" from left panel and selec
1	FITE (F. Js)
	7. Permissions acl sil
	7. permissions acl file sample is already available Add code in permissions acl file.

8. Now its time to test our hardware assests bysiness network. Hyperledger composer gives "test" facility from composer panel it self click on "rest" tab from top panel. g. create Assests. click on Hardware from left panel and dick + create new assests from right top corner & add code. click on create new button o lets create participants. click employee and click t create New participants and add code. It's time to do transaction, we will allocate macbook pro From Ketan (Employee #01) to Nirja Cemployee #62) click on submit transaction button from left panel In transaction dialog, we can see all transaction functions on top "Transaction Type" dropdown. click submit button after update above JSON in Transaction Diaglog As soon as you hit button Transaction processed and Transaction Id Will be generate. 2 click on all Transactions from left panel to verify all transactions. In following view records will give us more information about transaction Now it's time to deploy "hardware - assests" business networks to Hypertedger Fabric . click on Define tab from top panel & click "export" button from left panel. Export will create hardware assests .bna file/. pownload hardware - assests bno file bna is business Network Archieve file which contains model, script, networks access & query file

a halakan Walionalika kipadi jama integrasi-dalam yan	Assests	Transaction	ACCESS	Ouer
mai in the earth ann an dealann air agus airlean, agus ann an teach	participants	Functions	control	Defin
anada seria desa desalar agracia	Transaction	Functions	rules	1
	model	script	Access	ouer
	File	File	control	
Commission of the Control of the Con	cto	·Js	.001	100
	name of the state	1 1		1
eksentilan gipulipuli Alpertak kolonia Anatta da ekshibilana				
				7
	1	(+)	4	
		*	V V	
-		Business Neto	Dork Archieve	
		Bno	a	
- 4	Hyperledge		web bro	11200x /]
	Fabric doud			,
	Local			15
<u> </u>			online	
	14 · start Docker	and run nu		
	vil Fabric for	als directory	Ding comman	ds fre
	Install husi	Doc s - (a)		*,
		Detilork	1	
	if business	net	TO Hyperledg	er Fabi
The state of the s	if business	pa	Tready Instal	lad un
	if business can use " u	pa	Tready Instal	lad un
The state of the s	can use " u	pa	to Hyperledg Iready install I of install.	lad un
	can use " u	ipdate" instead	Tready Instal	lad un
	can use " u	ipdate" instead	ready install.	led you
	can use " u	ipdate" instead	ready install.	led you
	can use " u	ipdate" instead	ready install.	led you
	can use " u	ipdate" instead	ready install.	led you