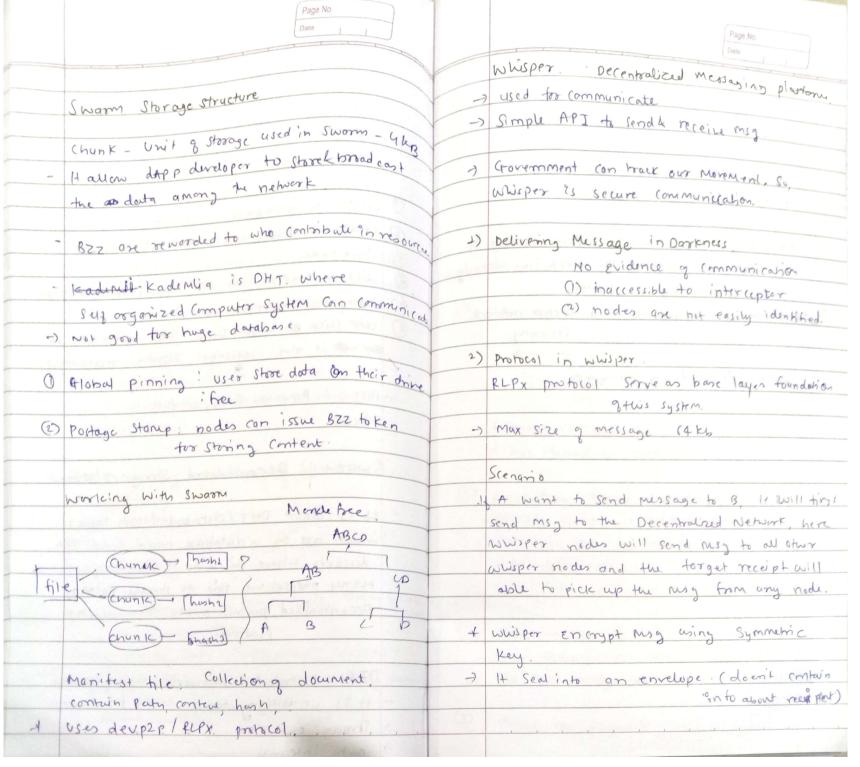
	Page No.  Date			Page No	
				Libbs	
	EVM.		1) First private key chowsen	from Fcc	
9	State Machine: EVM.  State Machine: EVM.  Merkle patricia Tree  The patricia Tree  That	1	) then public key is drive	d from on t	le.
-	6. Consensus algorithm.	3	mk address is drived ,	nom public ke	y y
7	Economic Security	Y			
	. Went	*	Types of Accounts.		
1.		Y			9 7
18	A STATE OF THE STA		EOA - Externally owned .		
11:			of It has private key to make transaction.		
12	node.	1	-> no associated code		
	man and and		human User		
+	ctas internal currency we need gas to				
	oun an App or strar of		Contract Account		
	- So, Every instruction have some fixed	-	Code and Storage associated	Antal Car	
	price.	->	Not have private key so, +	ney (ont initiate	trans".
	- EVM will ferminate the computation if	)	logic of the smort contrac	t control this	accoun
	gas Exceeds.		Cathary Talanti bark to	unlang L.Tf I	
a con and made has governed a good conversely the		*	Ethereum Node -> peer hopeer machine		
* bApps Decentralized App.			Onining node © EVM		
- open decentralized, feer to peer			@ EVM	ata a M. sciupa	
foont end - vser intertace		*	Transaction agreement blw sunder & receiver		
Back end - Smart Contract.			EOA -> CA		
7.12 -	whis per . Mussaging protocol		E0A → E0A		
-	Swam - Strage		(A -) CA		
	Kung P3 P Kingseno 1 4		(A-) FOA.	L. Strift & 20.7	
X E	ther currency ETH.		It contain from	blocknumbe	r urs
1	in acoust		To	900	bans?
+ ku	and addresses used for transfer and		value	gastrice	Index.
	Gwnership of Ether.		Input	hasy	
			black harn	nonce	

	Paga No.		Page No.
	Date		Cate
+	Types of Ethereum Network  network -> environment		private Network.
	Types of Ethereun Network -) environment Enthereum network -) environment	1	It nodes is not connected to public Network
		()	1 solated
	Anyone can access and add, via, transaction		Adv.
Car		1	only you are there No other uses
(4)	primary public network when achieved		No requirement of test.
/	brans accur		only your contract is there.
->	It has real value, real EH and real	4.	Unit acess.
	Com		less decentralized & Secure
(b)	Ethereum Testnets	-	TES STATE OF THE PROPERTY OF T
	the develop	*	Ethereum Virtual Machine : EVM
1 1	Contract code before		the state of the s
7	Uses proof of authority	->	DAPP developers in ethereum write their Smart
-7	no real value.		Contract in high level languages lik solidity
			Compile them into byte code.
	Adv.		then upload them for execution
1.	require less data to syn & Store.  In a fewhan, it can syn.		Ethereum smart (mhract run hime environment is called FVM.
	public		English and the state of the st
	The second secon	-)	It has own Storage
1	Disadv.	7	
1.	gas is free	-)	It run Smart Contracts code line by line.
2.	test ether is used, no real value.	7	amount of gas required.
		-)	Ele and as head is their for Maintain the
	4,001		Ethereum protocol is their for maintain the
			quis unique state macune.

Paga No. Date	Page No.
-> (ode -> byte code -> execute -> It is distributed State Machine -> It is distributed State Machine	Smort Contract
and state is data some	
accounts and balances	-> Computer program
EVM PON	-) Delorminishic.
Machine state (volatile).	-> EVM Centext - can acesse only limit into g
Program country Stack Marray Streams	-> Decentralized world computer -
(tas aruijanle) worldstor	Entire Botask is completed using smart contract
	life cycle q a smart Contract.
Etnoreum State bransinion function.  y(S,T) = S' S-State  7 - transcerion.	1. (reation - using high level lang, eg. Solidity and (mpile into low level lang, eg. bytacode
S— FVM —> S'	2. Deployment - on Ethereum network.
State uses modifield Merkle Patricia Irec	3. Execution - Evaluation q Contract, Execution
Transaction: instruction from account that	4. Completion: State is change, successful termination
have been cryptographically signed.	Purpose of Smart Contract
(1) mensage call (2) contract.	> Security -> Seller conda sold
	Therend data manipulation Assert - SC rooms
ey top, AND, ADD, SUB, ADDRESS, 1	I touck transaction. Buyer Com. I identity tept secoret to the third party.
and the second second second second	

Page No.	Page No.
	Renix - IDE
	I can panel
Types of smart contract.	side panel.
101(841)	main pany
1 Smort Legal contracts -) legally enforceable	Terminal Panel
Contrachiae	O create new workspace + icm.
manization.	(" (reate new file, and name. ("Hello.sol")
2. Decembratized Autonomous organization. ) The contract is bound to specific rule The contract is bound to specific rule	(3) Type code
The contract is bound to	6 dick on compiler icon and Select Compiler version
The contract is bound to the Contract that are coded into block chown Contract	
that are coded into blockers blend with governnee needs onis M	6 petloy the smart contract
	6 care click on button snow (tell as function in
3. Application Logic Contract based code	and it give message Ossning: Helloworld
3. Application Logic Contraction based code - application based code	and making patets made and a promise in roll of
-) allow divide to typical	- ABI - Application Brong interface
79.107	- Oyte code
	a stock a month of
of Implementing and deploying smert contract	Swame: Decentralized Storage platform
+ 2Mprement	The world by the second of the property
using Soliding	- It is giabt DHT (Distributed Hash Table)
code.  pragma Solidity 10.5.0;	which act as a destabase where nodes can
cocce.	discover where the data is stored.
pragma sovering no. s.o.	- many protocol uses this as strange Solation
Contract Helleworld -> Contractobject, Similar to class in you	
Contract Helloworld man	- Decentralized permissionless Communication
- access bearing	plastorm
String private state = "Helloworld"; > v mieble	DT a
muchion function (retH() public View return (String Memory)	DISC: Distributed immutable streng chanks
anly	- It is underlying storage model for sworm.
othern state; for send	-> Strong protection.
	a pata integrity



	Page No. Date
	Envelope contain.
	Version : use for decryption format.
	Data : content
3.	TTL (Time to live) time left foorso.
4.	Expiry: Expiration date.
5.	Topic field
6	Env Nonce: a no. that help POW thethood to
	determine whether the work has already
	been approved by the system
+	AFSNonce: Unique no. that Improve network
	Security
	THE COURS AT THE OWNER OF THE
The second	SHA 258 is used for encryption.
	may pressed to
	(
M Arried	Car is no got the partosis bust of the same
M Town	resolute discherence were and the second
	As the last seem have the seems were the
Marina Marina	to isser terror wife the cabour words
Mark to the	A MAIN MAINE A LAN LA
	100 mm m
	intermed maintageness to make a significant
To below	as terrological property and the second seco
A MARKET TO THE PARTY OF THE PA	re they do the state of the sta