Block chain Application and Architecture

CIA - IA

Manish Bharles 1947235 1) Account based cain transfer description : Create 30 cains & credited to Bab Asserted by Miners Transper 15 cains forces BOD to Abice Transfer 5 cains from Bab to caral Transfer 10 cain from Alice to Jun Signed (Allice Transfer 6 coins of non Jim to toward SIGNED (JIN) Transper & coins from caral to John Signestano) Tromsfor . 5 Cooks from John to Bab signed to b Transfer 10 colors from Bab to card (Signed ROA Torganifier 3 cains forem carel to john (Signed Carel Transper 8 coins forom canal to Alice Experiment Monday Augh S Page No. Date

Transaction based ledger: Infut : o ON por: 30.0 -> Bas I aprit: 1009 Dutput: 15.0 -> Alice, 15.0 -> Bab, signed (BOB) INPUT: 20] 4) Injut: 2003 (200), 10.0 -> Bab, signal(Box) output: 10.0-Jim, 5.0-) Alice, Signellation 5.) Input: 400] Input: 500] Input: 500] Oudput-8:0-) John, 3:0-Xaral, Signal Control 7) Input: 6[0] Out gut: 15.0 - Bob, 5.0 - Traken, signed (John) 8) Input: 700] Ontput: 13.0 > (aral, 5.0 > BOB, Signed (BOB) Input: 800] g.) Out but: 600 john, 10 or (and, Signed carrel (D) Input: 9(1) Outjut: 13.0 -) Alice, 2.0 -> care, I, signed (g. no)

3) A cryptography wallet is a piece of software that keeps tract of the secret Kerys used to digitally sign cryptocurrency transactions for distributed ledgers. Because only hose keys are the only way to prove ownership of digital assets and to execute transactions the Iromsfer them or change them in some way - they are a critical fice of the cryptocurrency ocopystem. crypto wallets keep Atrack at excryption keeps used to digitally sign transactions, it also stores the address on a blockchain where a particular asset resides. 98 Incy Counters loses . In at address, they essentially lose control over the Ligital money as assets.

2) Bit coin does not use the account model. The account model wasts on see BALANCE. But Biscom warks on transactions. In account medel, if alice receives 25 coshs in first Granaction and then transfers 17 cains to Bob in second & lifecies left in her account Thus it warks base on balance. Downside of this model is that it anyone has to confirm it his balan the transaction is valid, will have to week track at these account balance But in case of transaction ledger, It tells tracks of troins - actions not the account balance. Leaking up the transactions hash pointers. To engure whether wind are not been spent, we need to gran the block chain

between the referenced transaction and the latest black; we need not go through whale blackchain from beginning. This bistain script which is used in transaction based ledger helps to frevent the Louble Spent allact.