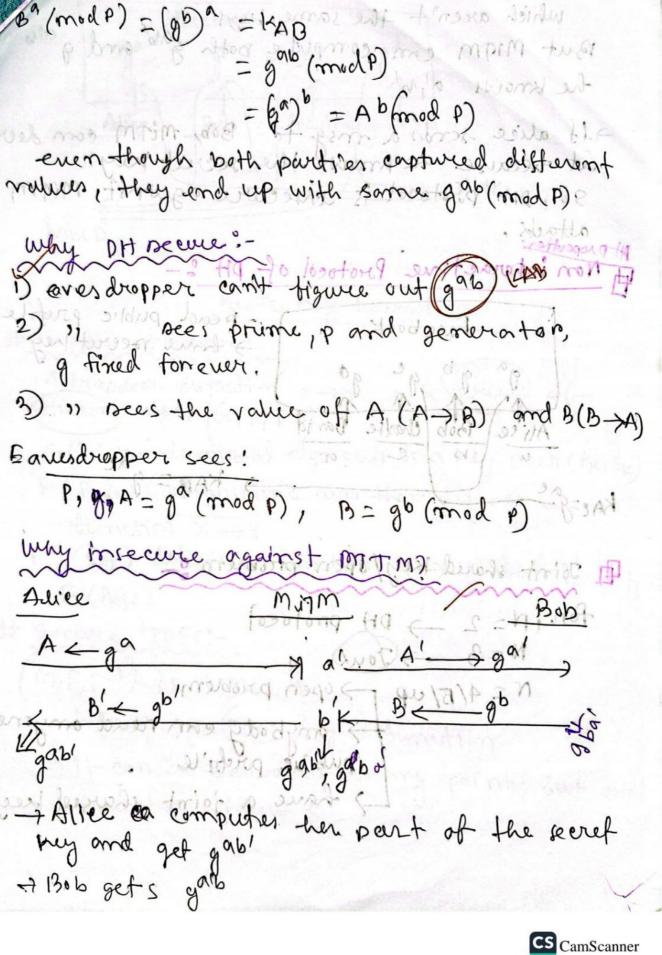
- Hollman poutocol: (peffinition) strog this protocol, we obtain a shared lary There is an exponential gap bet participant work and attacker work.) Fire some large prime, p (e.g. 600 digits)
2) fire an integer of in the nange 1 to P Pobles Bob Seng tot of So, p and of are the parameters of DH profocols How PH protocol works? Alice choose random Dis 21-- P-13 de aboose romdom b "Bob", Az go (mode)

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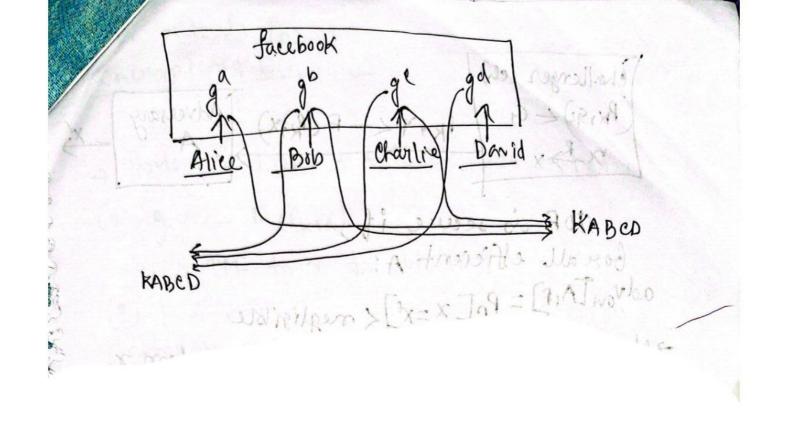
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which aren't the same buys But Min can compute both gab and gallo 0/10 he knows -If alice sends a mig to Bob, mitm can decrypt it because he knows the secret key. 30, Dit protocol is insecure against. Mitm pt properties. Mon interactive Protocol of PH Facebook 1 Joint should key/open problem on tore N= 2 -> DH protocol N= 4/5/up > open problem > anybody com read onyone's have a joint shared key

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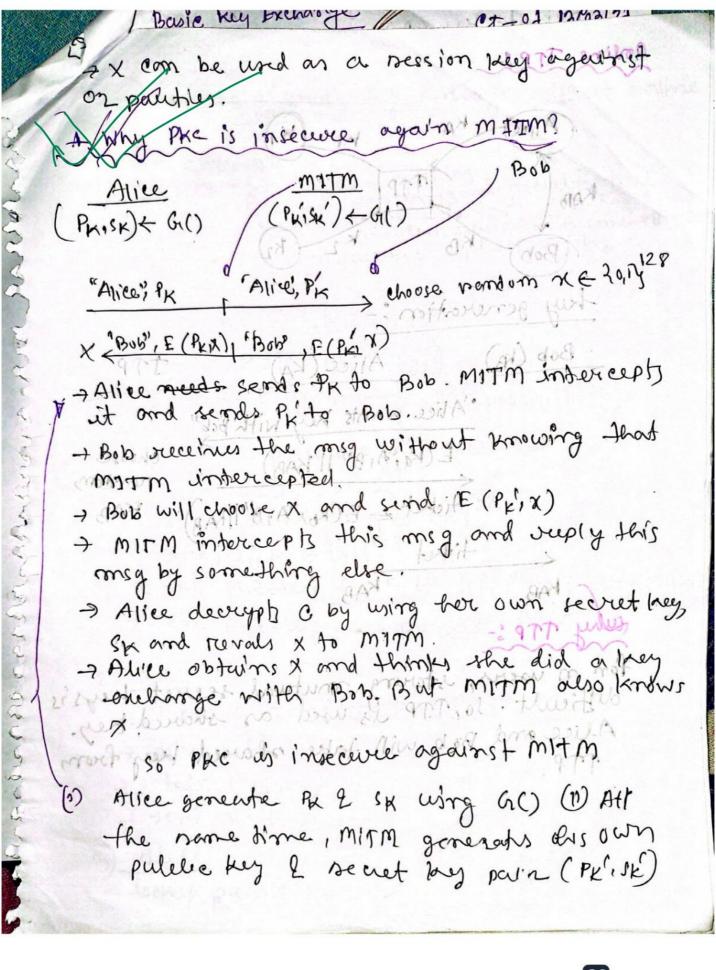


- (2) Alice sends & to Bob and says that "this may came from Alice".
- (3) Bob will generate a random 128 bit value, X and sends back to Alice saying "this msg is from Bob"

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He also sends encryption of ne under Alice's pairate ky (PK) (4) Alice will receive the ciphertent she will decrypt it by using her sx and give him the value, X (9) x is the shared sever key (6) Bob const send mag to Alice without X1. Alice Bob choose a pandom 128 bit no, x = 20,14 128 De D(Skie) -> XX Bob 11 C E (PKIX) res soul & E X : shave secret public ky encyption (PKC) seeme Secure against eavesdropping. 2 attacker com see PK, E (PKIX) and wants X & m. - attacker can't disgustidisting wish PRIE (PKIX), X) from 2 PRIE (PKIX) round & m) so it is semanticulty secure. - if only encryption is given, attacher can't tell whether the plaintext is x or just a random Junk, 1908 WOULD BORN

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