show that Alice and Bob outputs the Q.6 same key. Alice outputs K & Bob outputs WOt. Here, we need to show that K= WBt. WDt $= U \oplus \Gamma \oplus t$ $= S \oplus t \oplus \Gamma \oplus t$ $= S \oplus \Gamma \qquad [\because t \oplus t = 0]$ $= K \oplus \Gamma \oplus \Gamma$ = K [: r A r = 0] So, it is proved that K= W D t. Bob & Alice both outputs the same D. Here, S, u & w are public. Because, they are sent over a public or communication channel. From Slide 343, we can say that everything is known to adversary except the messages generated randomly & uniformly In our case, k,r, t are generated uniformly so, s, u en are public messages,

