Answer to the avestion -1

The two different attacks that Trudy can use to convince Bob that she is Alice is given belowo-

- D Trudy intercepts and records Alice's #meciane between Alice and Bot and then he replies to Bob with message. I and 3. In this case, to Bob with message. I and 3. In this case, Bob will think that trudy is Alice and will Bob will think that trudy is Alice and will always reply with message 2.
- 2) Truby opens one connection to Bob and sends

 first message and recieves second message

 After that, he opens another connection

 After that, he opens another connection

 to Bob and sends Rt1 to Bob in the

 to Bob and sends Rt1 to Bob in the

 first message. Then he uses Bob's response

 first message. Then he uses Bob's response

 to complete the first connection, and

 lets the second one to timeout.

Answer to the auestion-2

- a) No, Alice is not authenticated because no public key operations took place to authentiate, public key operations are required in this case, anyone can do it.
- b) Yes, the does authenticate Alice E (SRVRIN) after case, Alice E (SRVRIN) after the public key operation it means he authenticates Alice.

Answer to the auestion 03

a) we know

b) Here 1

First message, u = r2 mod N. = 102 mod SS = 100 mob SS = 45 (Ani) c) (niven, r=10 e=0

Third message, Y = r * se mod N

= 10 * 0° mog 22

= 10 m 08 55

= 10 (Ans)

4) anson,

N=10

e= 1

thir) wessome, y = + x se mod N

= 10 * 91 mod 55

= 35 (ANS)