Jubnit your answers to caswarakumanks@gmail.com

- Derove the following using mothermatical induction (wi) = (wr)i, for any string w and i >0
- (2) Construct a DFA to accept {we [a,b]\*: co has odd number ? a's and even number q b's}
- 3) Draw state diagram for an NFA that accepts.

- (4) Prove that {anbambamtn: m,n ≥1} is not regular.
- 5) Show the following language is context-free by exhibiting CFG

lambhopd2: m+n=p+83