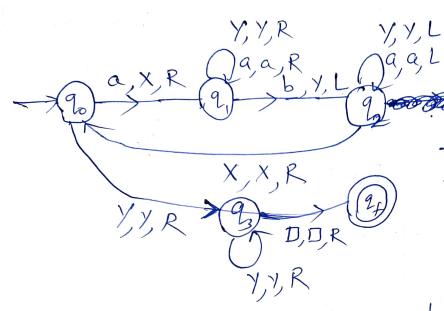
luring, Machine
Turny machine is the most powerful mathematical
model chich is same like Computer.
A Turing machine Mis defined by
M=(Q, E, 8, 90, F, D, F)
Cenese
Q'is set of mtemal states
= is the input alphabet
Tie the finite set of symbols called as
Je alphabet
DET is a special symbol called the blank.
To EQ is the initial state
FCQ is the set of final states
6:QXT -> QXTX { L, R}
Tape
Read/write head
Control unit

Ext= {anbn: n>1}

DDXXXXXDDD



go is intal state.
go is the Soral state

$$\mathcal{E}(Q_{0}, \alpha) = (Q_{1}, X, R)$$

$$\mathcal{E}(Q_{1}, \alpha) = (Q_{1}, X, R)$$

$$\mathcal{E}(Q_{1}, Y) = (Q_{1}, Y, R)$$

$$\mathcal{E}(Q_{1}, Y) = (Q_{2}, Y, L)$$

$$\mathcal{E}(Q_{2}, \alpha) = (Q_{2}, X, L)$$

$$\mathcal{E}(Q_{2}, X) = (Q_{2}, Y, L)$$

$$\mathcal{E}(Q_{2}, X) = (Q_{3}, Y, R)$$

$$\mathcal{E}(Q_{3}, Y) = (Q_{3}, Y, R)$$

$$\mathcal{E}(Q_{3}, Y) = (Q_{3}, Y, R)$$

$$\mathcal{E}(Q_{3}, Y) = (Q_{4}, D, R)$$