Stochastic Simulation. (1) HW 2 ; pereate port bolio pover to stocks Q1 3 2019 - maximizes return. 100 days. constraint -> No more than have a negative return. Objective = Maximize the expected return. decision_variables. so weights of stocks,

Big M

Breach_boolean for all

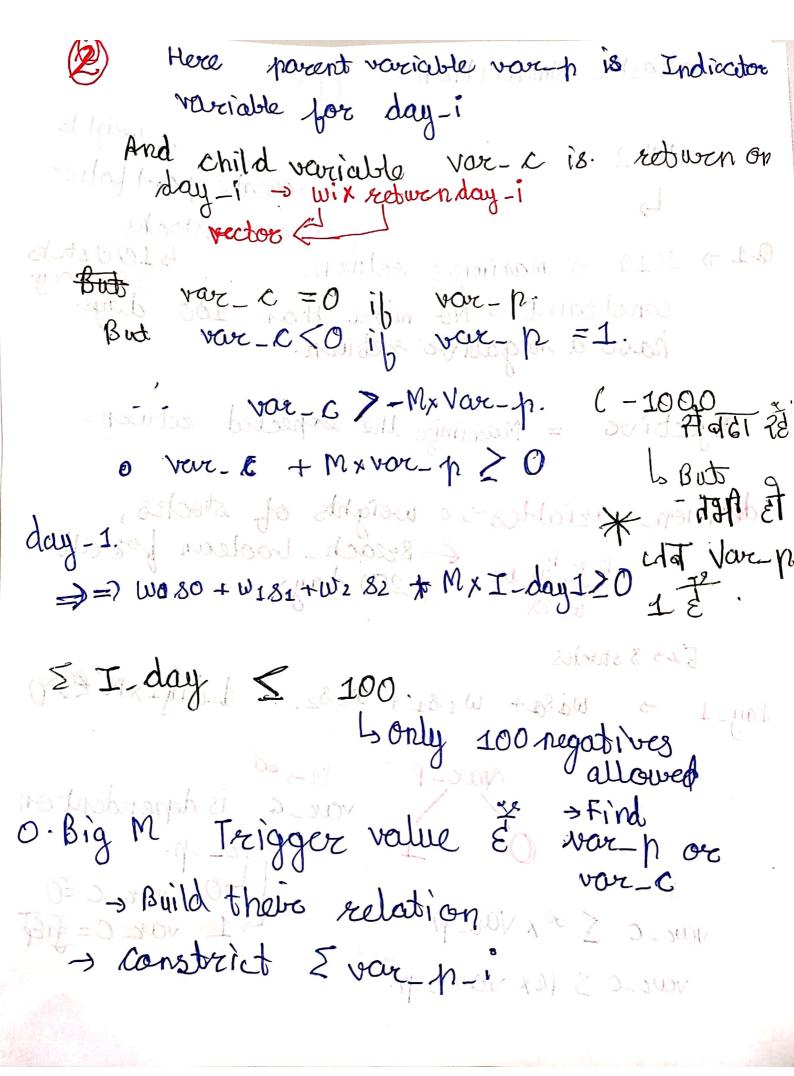
used

250 days. Ex > 3 stocks 8ay-1. → WaSa+ W181+ W282. + d-day1×M €>0 South 100 regatives proses nax-r

vous c is dependent on vous c p. vous c = 0

vous c s ox vous p. de la vous c = 4 Ext

vous c s mx vous p.



reas bendor Problem Apr) -ve. of PN(0,0). Is capacity + Demand by A+Bnp + E. based. La capped by a bound of Capacity. P(p)

K=Capacity = Quantity tor

be printled

by News

Vendor by News Vendon b set=91by News Vendor D(p) is non-linear Then we have prince (p) Revenue = D(p) x p. les Can be integrated Cost > Fixed

Sependent Be simulated generating

On quantity. to be print D(p) - Wing max or - Lacrope to hopery of if perocedy (Bottomlines Maximum profit is or quantity-printed dependent) capacity lo price x capacity.

Myddag goding For single price hearing planting alarmola d The divide of the principal of the state of Profit is still capped by quantity produced cxq -> cost Roevenul = pxq or pxdi bedoeped Isdependent on whether the.

the demand is lower than
eapacity.

phi

it > pxq - Cxq, i pxdi - Cxq. hi & the two proofits 5 Theory of capacity hi is descived can be used:

d(n) - capped by a capacity incox conacity.

(3) Basically di's are self-simulate points Using N(0, ~2) E. conacity! di -> di.(capped by 9) preinted Take average & will be a compute profit_i profits. La optimize In data generation we due it resolve /solve it using if orc max procedure using constraints. Los Instead of di « (di org) profit < (mofit by di q) profit by