SHOP ORDERING PROBLEM
PARAMETERS AND DECISION VARIABLES:
for simulation in python
O: set of products Ai: set of suppliers with product i - num_suppliers
T: time period - time-period
CFj: fixed cost for supplier j min-fixed-cost & CFo & max-fixed-cost
et : extracost due to unsatisfied demands min-extracost set smax-extracost cij : cost of one item i from supplies 7 - min-cost s Cij & max-cost
u(): discount function
hi: : unitary hoteling cost for product & min-holding-cost this k max-holding
Ji : inventory of product i @ time ? Di : demand of product i @ time ?
M: arbitrary big number
: selling price of product i -> min-price & pi & max-price Ti : time for the product i to arriver min-time steps & 7 i & max-time steps
Ois: emount of product i orclared from supplier J@fime 2
y j = 2 1 if supplier j is chosen for an order @ time 2
Ø otherwise
bi= mex [Di - Zi , 0]



