Name: Mahizebin Shams- E- Mofiz 200 1712634692 Course & CSP 40 Quiz-04 Decision tree: IDD algorithm: IDB algorithm is Home of the algorithm that uses in building Decision free. JDD algorithm beleats the best bleatone at each step while building a decision tree. It selects the beatones with the highest on Maximum gain. taking supplies as the aithorhoute. Entropy = -P+log2P+:-Plog2P - ( )

Here, we will take log to base 2.

Here total 12 Yes/No.

out ub which 4 Yes and 8 No.

: E(3) = -[ 4 log(4) ) + (8 12 log(8))

= 0.1589 to -0.1165

= 0.0429

Now, we calculate the average

weighted emtropy.

Weighted emtropy.

We have 7 \$ 800 and

5 No.

E(W) = - [ = log (= 1) ] + (= 12 log (= 1))

= 0.1367 - 0.1589

= -0.0217.

 $ain(supply,B) = 0.0424 - \frac{18}{12}leg \frac{8}{12} - \frac{4}{12}leg \frac{7}{12} - \frac{8}{12}leg \frac{7}{12}$  = 0.4362

Crain (Weather, E) =0.092 4 - 4 12 10 4 12 - 6 12 10 512

- 4 12 10 4 12

= 0.5109

Chain (Worked, E) = 0.0929 - 7 10 10 7 - 5 10 5

Grain (Worriced E) = 0.0929 - 7/12/09 7/2 - 5/12/09/2 = 0.3374

main (supply shopped, 12) = 0.0929-

部的意义和自己的专工一工作

-334.0 - (-331.0

- K17, 0 - 0

Decision free:

