Ques 1) P- player (0,2) plant loss (p=0.9)

leg broken (0.2) 50

leg fine (0.8)

leg fine (0.8) not play leg broken (0.2) 0 leg broken -50. leg pine (0.8) -10

(2) Expected willy) plays]= 0.1(100x 0.2 + 10x 0.2) +0.9(-50x 0.2 + 0x0.2)

0.1(90) + 0.9(-10)= 0 9 - 9 = 0. : Engested whility of plays = 0 Enjucked whility I not plays = 0.2(-10) + 0.(0.2) : Expected whility I not playing = 2. Since 0>-8, ... I should play.

leg OK (0.8) A3) leg Broke (0,2) not play to play not play win(p=6.1) | by (b.9) win low Expected info. Enjected valued perject into I me ly = $0.2 \times 10 + 0.8 \times 10 = -2 + 2 = 6.$ 100 50 (-2=0-2) (-10=0-10) (-2=0-2)

100 50 (-2=0-2)

100 50 (-2=0-2)

100 50 (-2=0-2) : Engected val) into of them win = 90(0.1)-2(0.9) (5) To find P[win] broken] = 7.2. winnig decision branch u inwhal after LEG OK LEG BROKEN, M regd prob. can be "calculated & host can help to see wheten win is mor

(Justian &) T.P. f: 20,13d -> 20,13 van be represented as a neural network.
with just 1 hidden layer. Now his question can be seven like mounter of .

havy a black box which takes bootean values

as inputs I outputs either of or a 1. So his question can be modelled as provide that we can we present a single layer layer for borlean function as a single layer. perception with he help I a sight borlean perception. Now we know than simple gates like (x 2) AND (x > 6 > X XY) NOT (x -1 v) x) can be represented directly.

as sight perceptions.

When we need functions like XOR, but introduced a easily implemented, hidden layer 8 men that yor can be easily implemented, 7-0.5 Now we know that any function com be created usey AND and NOT gestes (from ECE 101 (Digital chts)

I and and or gotes not gates. Thus we can use huse gettes to hoodel 'ay bodean løgic (part) hidden layer) & heir output would be a booken Vielu et or! De This can be illustrated using XOR gate itself on hu prenious pape Thus and boolean function can be represented mydemented usig just a sight perception, .. Any boolean junction can be implemented used just the a simple widden layer. 2. input modes, 1 hidlen lager 7 = argmany (P (y=y1x) / enp(BX1+ B2X2) Y= P(Y=1 (x) 1 + emp(BiX,+ BiXz) Y=P(Y=-1)X)= 1 + enp (BIXI + B2X2)

wij activativ I-n

1+e-n X2 PL S (BX) -1 -px-px wy activat -1 -n