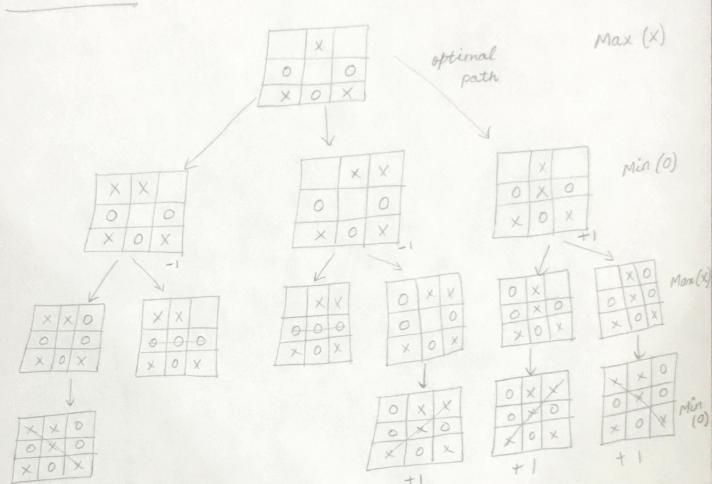
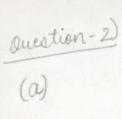
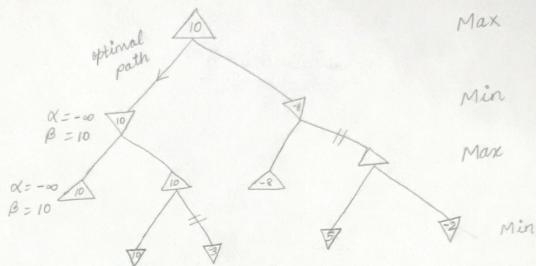
Assignment - 3

Question - 1)

+1

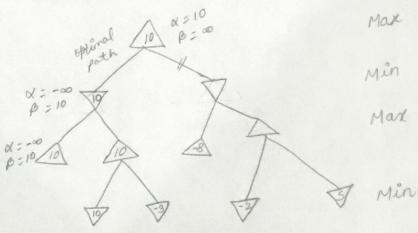






where "=" indicates that the is not visited

(b) Maximum utility value is 10 so, maximum roole will stop exploring once it finds 10. It will not explore the other roole even if it has higher value.



If a player uses different algorithm than MINMAX algorithm then MAX player will have the best possible sutcome as 100.

of player uses MINMAX algorithm then the MAX player will have the worst case with value of 70.

Question-4) Mark 0.25 Mark where "O" = (chance x utility value)) of all child nodes.

suedion-5)

function minimax (state, \alpha, \beta) networn C

C-lowest value passed to shill nooles

if n is terminal state

networn utility value of n

for a + 5 in DeepGreenMove (state)

C <- max (c minmax (state, x, B))

 $\frac{4}{6}$ CCB then $\alpha \leftarrow \max(\alpha, f)$ else return c

else

g < -0
for a x 5 in DeepGreenMove (state)

C < min (c, minmax (state, α, β))

if $C > \alpha$ then $\beta \leftarrow max (\beta, F)$ else return Creturn C