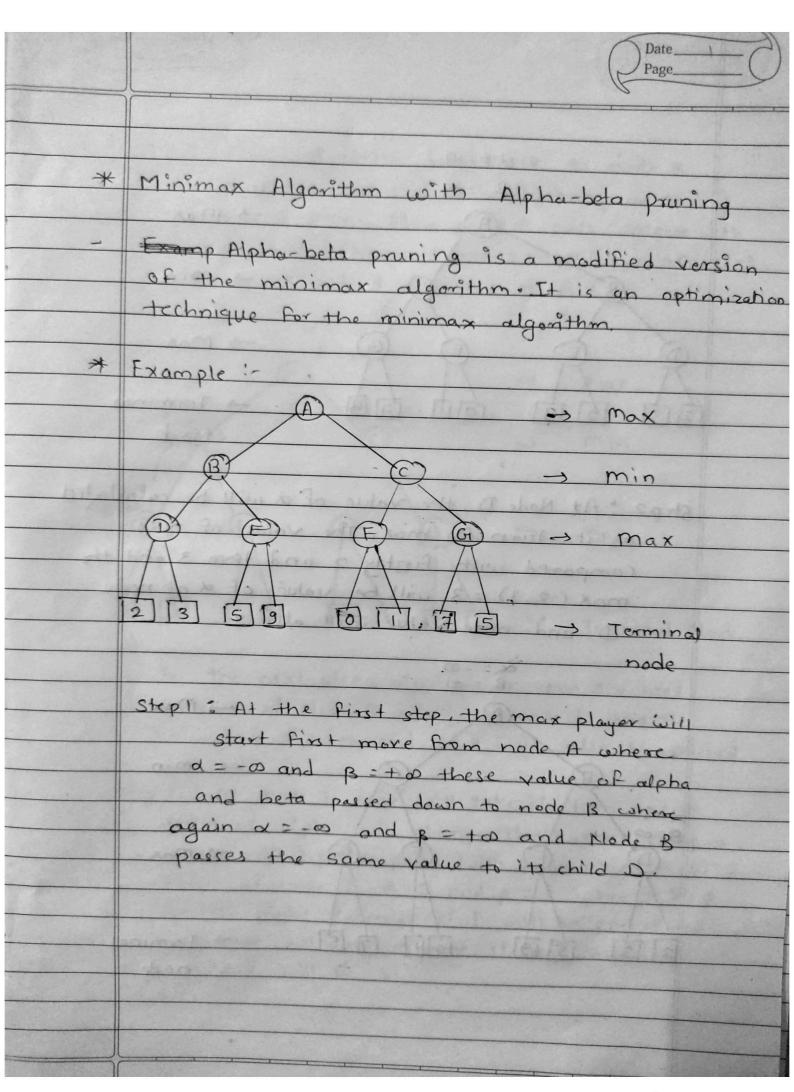
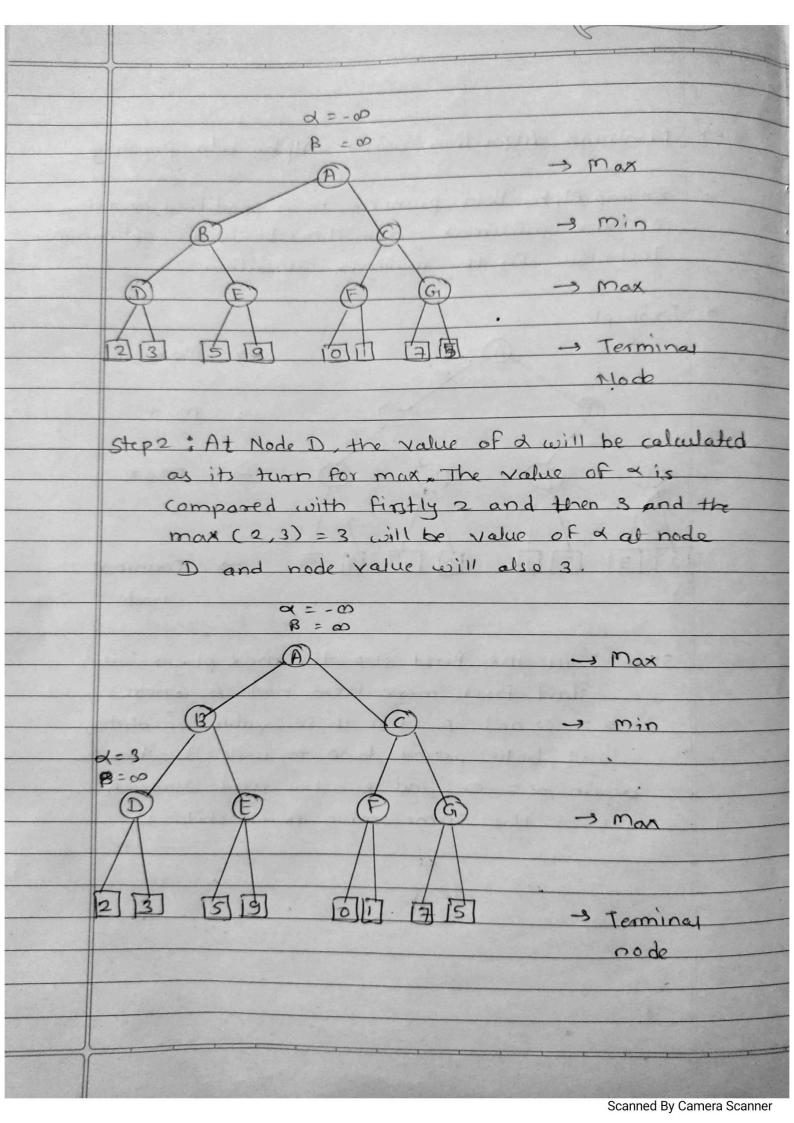
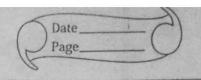
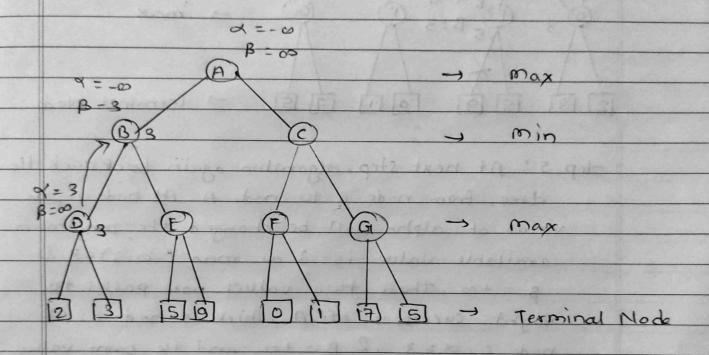
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	Roll No : 53
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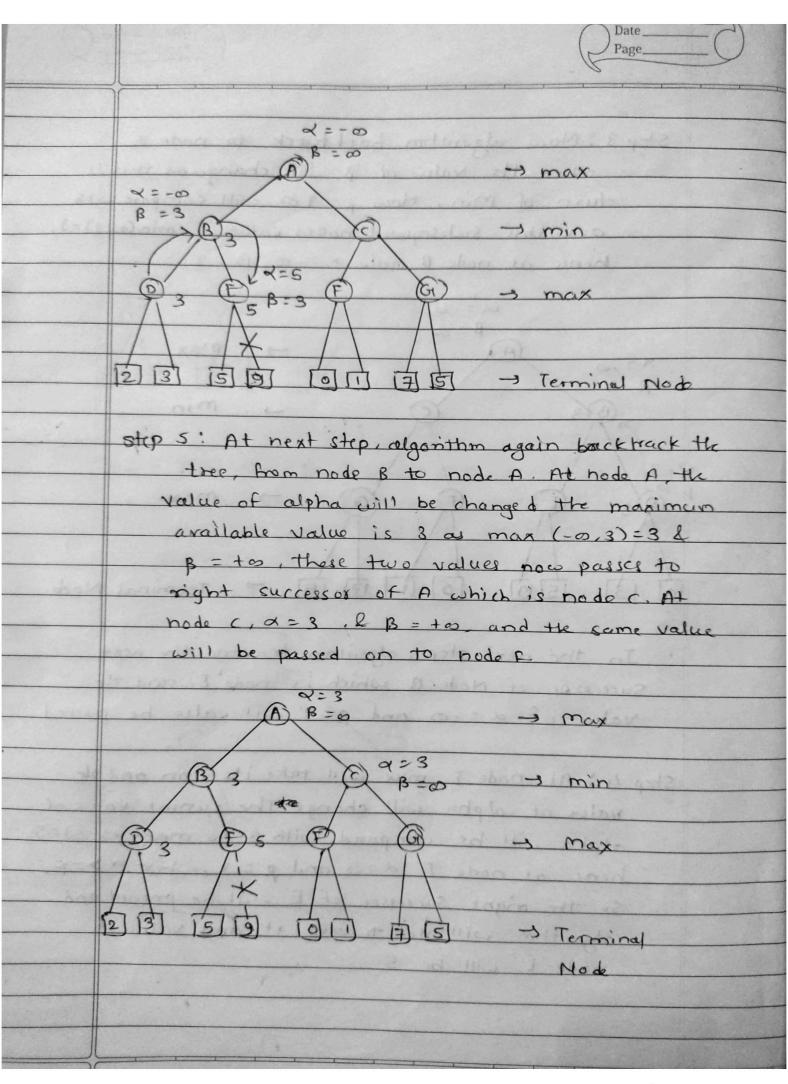


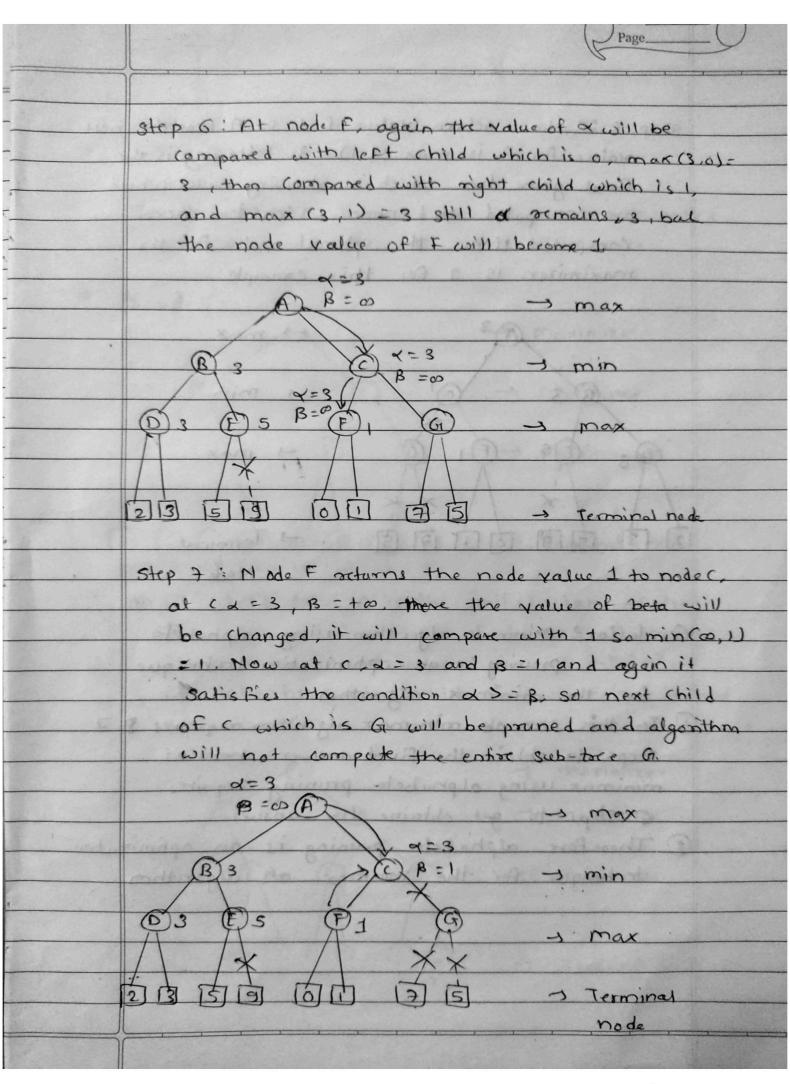
Step 3: Now algorithm backtrack to node B, where the value of B will change as this is turn of Min. Now B= to, will compare with available subsequent nodes value, ie. min (00,3)=3, hence at node B now x=-00, B=3



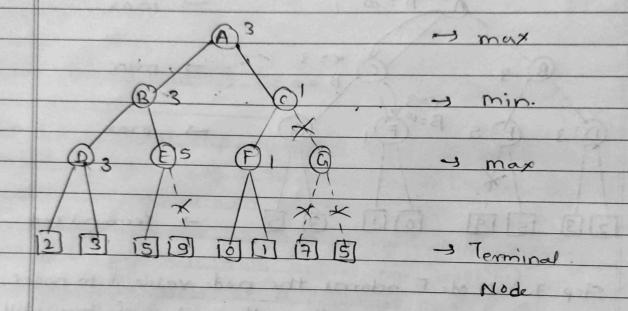
In the next step, algorithm travene the next Successor of Mode B which is node E, and the Value of d = -0 and B=3 will also be passed

Step 4: At node E, max will take its turn and the value of alpha will be compared with 5, so man(-0, 5)=5, hence at node E d=5 and p=3, where a>=B, so the right successor of E will be presed and algorithm will not traverse it and value of node E will be 5.





step 8 °C. Now oftern value of 1 to A here the best value for A is max (3,1) = 3. Following is the final game tree which is showing nodes which are computed and nodes which has viewer computed. Hence the optimal value for the maximizer is 3 for this example



Conclusion: Minmax algorithm using alphabeter

pruning is an optimization technique

for the minimax algorithm

- The this example min-max algorithm requires \$ 7 steps to obtain the final answer where as minimax using alphabeta pruning requires 6 steps to get obtains the answer.
- 1 Therefore alphabeta pruning is an appimization technique for the minmax at algorithm.