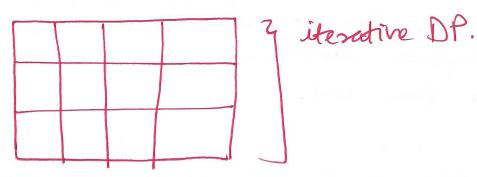
like "memoisation" or "caching" or using a tabular "bottom up" approach that somes the problem iteratively by populating the solutions to smaller sub-problems and then using them to ful the original solution. This is when me create a table:



- Departic programming is one algorithm design technique whome there is abundance of parent problems. Parent problems are model problems that are used to domonstrate the application of the concept of dynamic programming and other problems can be created or formulated as their variations. Some of the model problems are as follows:

- 1) 0-1 Knapsæde problem.
- 2) Unbounded Knapsack problem
- 3) Elbonacci
- 4) Longest Common Sub-sequerce problem
- 5) Longest Increasing sub-sequence problem.
- 6) Kadane's algorithm.
- 7) Matrix Chain Multiplication problem.
- 8) DP on Trees
- 9) DP on Gord.
- 10) Miscellaneous others.

these can also be thought of as different partlerns. associated with problems the can be solved using dynanic programmite.