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Team Id	PNT2022TMID47300
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Utilization of Algorithms, Dynamic programming, Optimization

INTRODUCTION TO DYNAMIC PROGRAMMING

- Dynamic programming is an algorithm design technique for optimization problems: often minimizing or maximizing.
- . Programming refers to the use of tables (arrays) to construct a solution.
- In dynamic programming we usually reduce time by increasing the amount of space.
- . The table is then used for finding the optimal solution to larger problems.
- . Time is saved since each sub-problem is solved only once.
- In such problems there can be many possible solutions. Each solution has a value, and we wish to find a solution with the optimal (minimum or maximum) value.