Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

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See we can do this using dp also as seen in unbounded knapsack.

Text

Description automatically generated

See here value by weight. we do by this logic. Then we will store in pair as in fraction and the index. Then there will be 2 condition if earlier weight plus the new total weight less than or equal to max weight then we can take that as a whole. Second will be take fraction as to complete max weight.

Code:

Text

Description automatically generated