Faculty of Information Engineering & Technology
The Networking Department
Course: Analysis and Design of Algorithms [CSEN 707]
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Project
Deadline 15th of January 2021

Knapsack 2 Dimensional Problem:

A knapsack problem requires finding a subset placed items from a set of items while maximizing the sum of the items benefit and not exceeding the knapsack total capacity or violating any other constraints.

Design a **Dynamic Programming** Algorithm to solve the above problem.

Deliverables:

- **Code:** any programming language Java, C, C++, MATLAB or Python.
- **Report:**
  - Pseudocode, flowchart or English description to your code flow.
  - Your code should print subset list of picked items and total obtained benefit.
  - Test you code by input givens in tutorial 6 problem 1 get the output and screenshot it.

Submission:
Send zipped code and PDF computerized report to my email mira.wasfy94@gmail.com, mention your name and ID of each member in your team.

Deadline:
Hard deadline on Saturday 16th of January 2021 11:59 PM.

Teams:

Group of 4 maximum. (Switch tutorials are allowed)

Needless to mention that **cheating cases aren't allowed**.
Cheating case both teams will be graded ZERO.

Merry Christmas & Happy New Year
Best of luck ☺