Online Assignment

Roll:

Name:

Filename: your-roll-AS2-P1.pdf Time: 45 minutes

(Submission in **minimum time** with the correct answer will get **maximum marks**)

- 1. Write a program for the **fractional knapsack problem** in C/C++. Run your program for the following sets of data.
- 1) Capacity = 165

Weights = {29, 44, 23, 53, 38, 63, 31, 85, 89, 82}

Profits = {49, 68, 92, 60, 43, 67, 57, 84, 87, 72}

2) Capacity = 750

98, 106, 70, 110, 113, 115, 118, 120, 73}

Profits = {149, 150, 156, 163, 173, 184, 192,

135, 201, 210, 214, 221, 229, 240, 139}

- a) Show your output of the program.
- a-1) Output for the first data set:
- a-2) Output for the second data set:
- b) Describe the design method of your program.
- c) Give the code of your program.