Algorithm

Catering system transactions

Problem definition: Design and develop an integrated solution of a caterer billing system to run a small scale business in a day to day event transaction activities. The solution provides complete details of the valid business details with user friendly environment along with the report details.

Variables usage:

Global variables:

1. cat\_details : Contains a list of miscellaneous caterer details. Consists of:
   1. name (String) : String to store name of Catering company
   2. taxp (Float) : Tax Percentage
2. menu : Containing the menu list. Consists of:
   1. num\_menu (Integer) : Number of items in the menu
   2. pieces (Array of custom structure) : Consists of number of each inventory item, which can be accessed by “pieces[i]” where i is the i-th element (Considering the array to be zero-indexed). Each of these items further consist of :-
      1. name (String) : Name of the food item
      2. sprice (Float) : Selling price of the item
      3. pcost (Float) : Production of the item
3. last\_invoice : Stores the most recently generated/used invoice in the program. As at most one invoice is required to be loaded at once, only one such structure is used.
   1. recep (String) : Contains the name of the recipient the invoice is addressed to.
   2. Item\_number(Array of tuples)