Abstract

Lately so many people are suffering of *Diabetes Melitus*. The causal factor is they consume many kind of food that content too much sugar. After knowing that they are suffering of Diabetes Melitus, the problem which will float to the surface is how to take decision to choose what food that much better to be consume. The sufferer will thinking hard about the content of sugar before they consume some food. Because, if they consume some food that content high sugar, their *Diabetes Melitus* will flered up again.

Because of that, choosing the correct food to eat will take care their health. So, i will use *Dynamic Programming* method in 0/1 *Knapsack*. This method will give us solution to get best menu of food. We will select the food that really safety to be consume in adequate quantity (How gram food that must be consume). After that , we will organize the best composition of food for sufferer. hopefully, by this method we can get appropriate composition of food for the sufferer of Diabetes Melitus.

Keywords : Diabetes Melitus, Dynamic Programming, Knapsack.