**Tabular method**

Overview of tubular method

Tabular method ,which is also known as the Quine-McCluskey, is used in minimizing functions using the axiom of A+A' = 1

Features of the program ?

1. used to minimize n variables
2. use Petrik method if there is not essential prime implicants

programming Language used?

The program is developed in Java programming language

Data Structure of the program

Minterms is stored in an arraylist of objects where each object has several variables  
to make dealing with it easy

How it works ?

1. when minterms are entered the program loops for finding   
   pairs that satisfy the equation A+A' =1
2. The previous step until no pairs are matched
3. The program looks at each of prime Implicants we have   
   found (i.e. matched pairs) if they cover one prime implicants   
   and then mark them as essential
4. The case that all essentials have covered all minterms the program returns the expression of Prime implicants In sum of product form
5. If there is minterms that haven't been covered yet then petrik  
   is used to determine the proper prime implicants that could   
   cover those midterms (i.e. less in cost)

Assumptions

1. When the user enters an invalid input(e.g. out of range input or negative ) it will be ignored
2. When user ends entering minterms by entering -1

Simple Runs









