## MAINTENANCE PROJECT

Given a system consisting of Transactions and modules (which are related to the Transactions).
Given that a module is defective (root cause) determine the paths back to a given transaction.
In so doing print out:-
a) the transactions in the system under study;
b) the unique modules within the system; and
c) an explosion of the transaction under review
Example given :
Relationships example used where there are 2 transactions A and Q (Data set end with **).
C F; D X; D Y;A B; A C; Q C; Q D ;A D; B X; B Y; B Z; D Z; X P; Y X; Z B1; Z F; **
Example data set (inp.txt) will contain the following :
C F; D X; D Y;A B; A C; Q C; Q D ;A D; B X; B Y; B Z; D Z; X P; Y X; Z B1; Z F; **;Q:F;
1. Show a User Interface for the project.
2. Given that there is a defective module (eg F),
a)Print out the number of unique modules in the system
<u>Using the example above</u> the unique modules are B,C,D,B1, X,Y,Z,F,P;
There are 9 Unique modules and there are 2 transactions A and Q
b) Show the given paths from the transaction to the defective module.
<u>Using the example above</u> for transaction Q it will be :
QCF
QDZF
c) Show the explosion of a given transaction (eg Transaction Q); Note "*" represents a previous call to a module.
Q
С
F
D
х
P
Υ
X*
Z
B1
F*