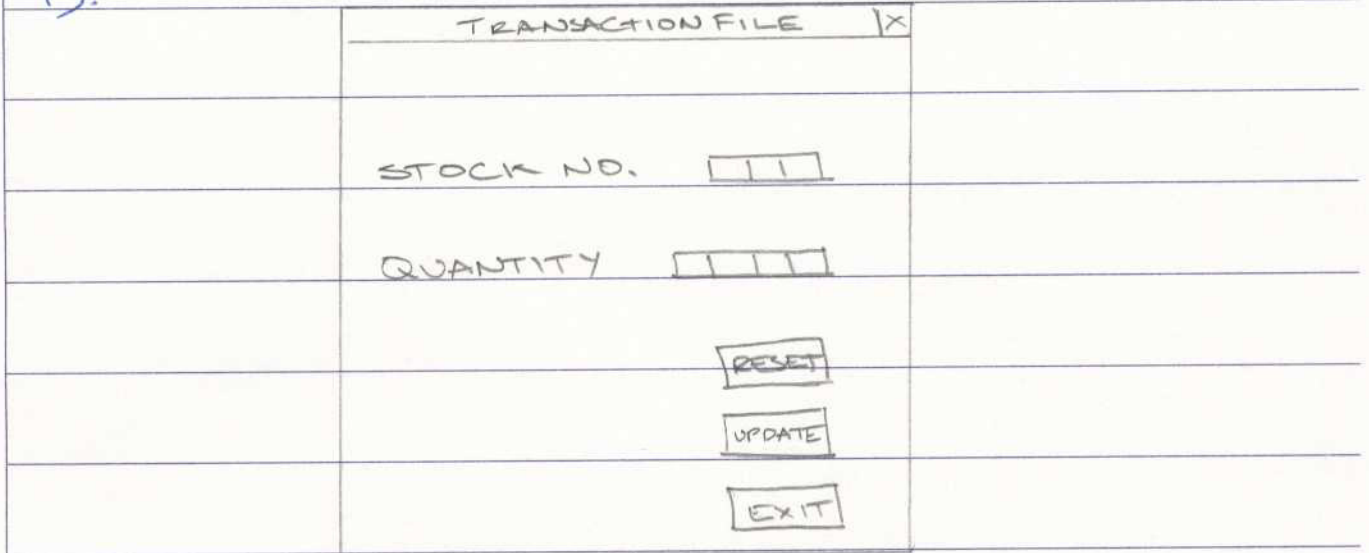


①

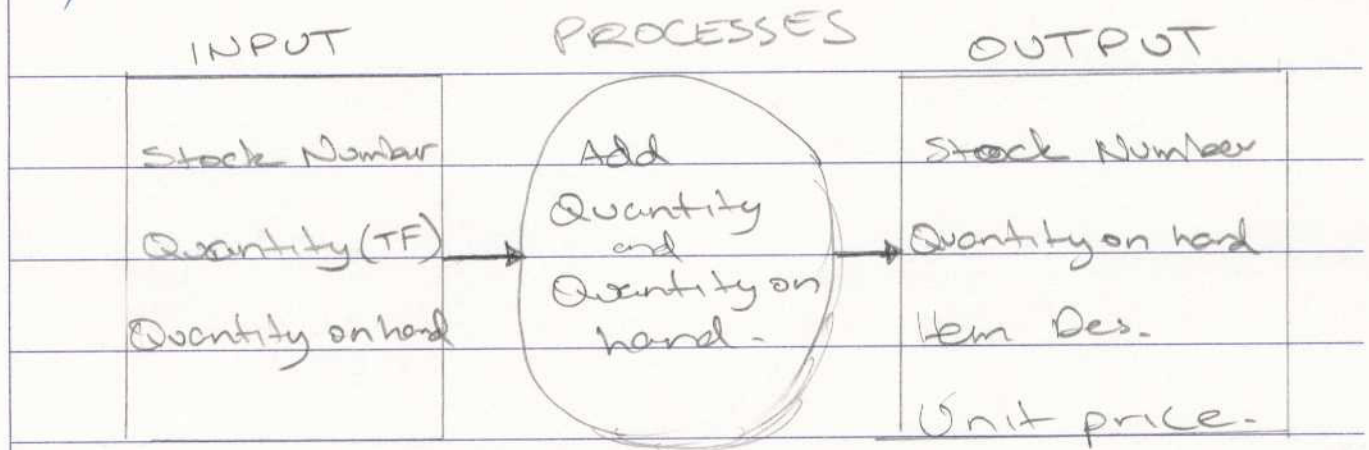
Q22-

a)

i).



ii)



iii)

BEGIN MAIN PROGRAM.

INITIALISATION.

Inventory-file is a record

Inven-Stock is an integer

Item-des is a string.

Quantity is an integer

Quantity-on-hand is an integer

Trans-stock is an integer.

Trans-file is a 2D array.

Unit-price is a floating point.

END INITIALISATION.

WHILE there are still items in transaction file

Update inventory-file from Trans-file

ENDWHILE

END MAIN PROGRAM.

BEGIN subprogram (Update inventory-file from
Trans-file)

REPEAT

stock = 1.

Inventory-file.Quantity = Inventory-file.Quantity
+ Trans-file.Quantity

IF Inven-Stock \neq TranTrans-Stock

THEN print "A match between stock numbers
cannot be found"

ELSE print "The stock has been updated"

IF Inventory-file.Quantity $<$ 3.

THEN print "You need more stock"

ELSE print "You have plenty of stock!"

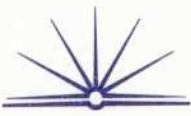
UNTIL There are no more stock items.

END subprogram.



b) In the designing stage of the software development cycle internal documentation needs to be created when programmers ~~are~~ are creating the code. Such documentation such as intrinsic documentation is need so that understanding the code and following the algorithms is much easier. Meaningful names of variables etc help when coding the algorithm. Also comments beside parts of code is internal documentation as these will assist other programmers when they look at the source code as to what the code actually does.

In the ^{testing & evaluating} ~~implementation~~ stage of software development, online documentation is needed as online documentation helps the users when they try and use the new program.



Help files, with tutorials and search options allow the users to get out of trouble when they are unsure what to do. Balloon text is also helpful as text messages in "balloons" are displayed over objects which the user may be unsure about.