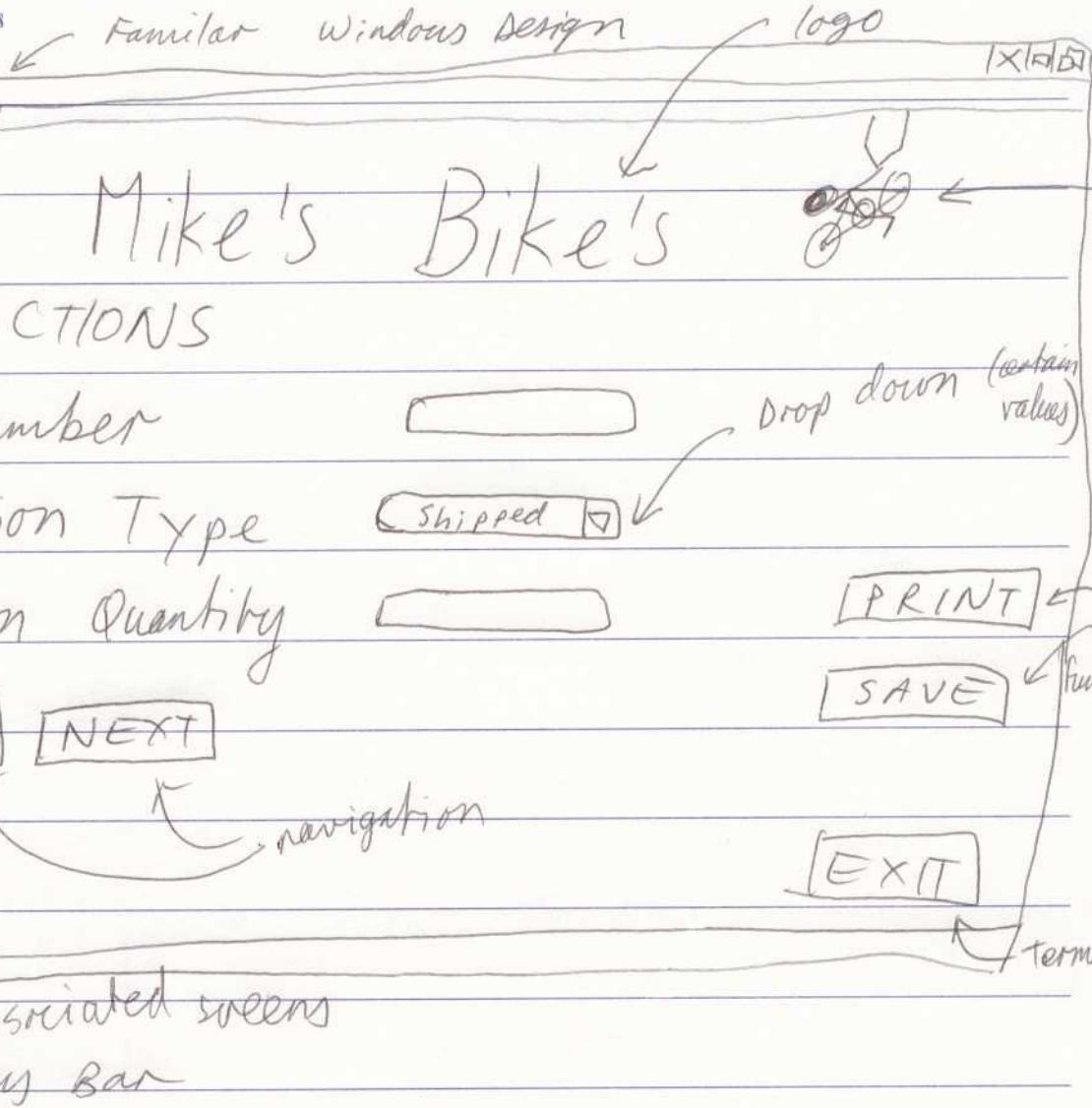




Centre Number: ..... Student Number: .....

BOARD OF STUDIES  
NEW SOUTH WALES



ii) INPUT

Get Stock from File  
Get Quantity from File

PROCESS

Determine Change

OUTPUT

Save changes to file

and

ii)

INPUT	PROCESS	OUTPUT
request Stock Number	goto Transaction File	return Stock Number
request Quantity	goto Transaction File	return Quantity
Stock Number	Calculate stock change	Update
Quantity		Inventory File End

iii) get info from transaction, read into an array

Get info from Inventory, read into an array

Check transaction file

Assuming Inventory in order so Array index, see

how long array is.

Manage for all transaction numbers over array index

Read part of Transaction into Inventory

Print out if quantity &lt; 3.

BEGIN MainProgram Bike Tracker

Read Transaction into Array

Read Inventory into Array

Transaction to Inventory Errors

Read Transaction into Inventory

~~Read Transaction~~ Inventory Deficiencies

END MAIN program Bike Tracker

BEGIN<sup>SUB</sup>  
Read Transaction into Array  
 declare counter as local integer  
 TYPE TranRec

StockNo As integer \* 3

Quantity As integer \* 4

END TYPE

declare TranArray of TranRec from 1 to 1000 as array of records.

counter = 0

WHILE not EOF or ~~not~~ StockNo > 999

Read StockNo from Read

increment counter

StockNo read StockNo (counter) in file

Tranarray [counter]. StockNo = StockNo

Tranread Quantity (counter) in file

Tranarray [counter]. Quantity = quantity

END WHILE

END SUB end Transaction into storage

BEGIN SUB readInventoryIntoArray

TYPE InvRec AS

StockNo AS integer \* 3

Quantity AS integer \* 4

Item AS string \* 15

UnitPrice AS Currency \* 5

↙  
3 dollars  
↓  
2 decimals  
(999.99)

ENDTYPE

Declare InvArray OF InvRec From 1 To 100 AS ArrayOfRecords

Declare count AS local integer

count = 0

WHILE not EOF OR StockNo < 999

increment count

Read StockNo(count) From File

read InvArray [count]. StockNo = StockNo

Read Quantity(count) From File

InvArray [count]. Quantity = Quantity

Read Item(count) From File

InvArray [count]. Item = Item

Read UnitPrice(count) From File

InvArray [count]. UnitPrice = UnitPrice

ENDWHILE

ENDSUB readInventoryIntoArray.



BEGIN <sup>SUB</sup>  
Transaction into Inventory Errors

DIM count1 as local integer  
count1 = 0

DIM count2 as local integer  
count2 = 0

DIM StockMax as local integer  
StockMax = 0

WHILE NOT EOF for InvArray

count1 = count1 + 1

END WHILE

WHILE NOT EOF for TranArray

count2 = count2 + 1

IF ~~EOF~~ TranArray [count2]. StockNo > StockMax THEN

StockMax = TranArray [count2]. StockNo

ENDIF

END WHILE

IF StockMax > count1 THEN

WHILE StockMax > count1

Display StockMax " is an invalid stock"

count decrement StockMax

END WHILE

ENDIF

END SUB Transaction into Inventory Errors.

BEGINSUB Read Transaction into Inventory

DIM ~~QuanChange~~ AS integer

DIM StockChange AS integer

DIM count AS Local integer

Count = 1, StockChange = 0, QuanChange = 0

WHILE TranArray not EOF OR TranArray[Count].StockNo <> 999

TranArray StockChange = TranArray[Count].StockNo

StockQuanChange = TranArray[Count].Quantity

InvArray[StockChange].Quantity = InvArray[StockChange].Quantity

increment count by 1

END WHILE

+ QuanChange  
on same line  
when

ENDSUB Read Transaction into Inventory

BEGINSUB Inventory Deficiencies

DIM count AS Local integer

Count = 1

WHILE InvArray not EOF OR ~~Stock~~ InvArray[Count].StockNo <> 999

IF InvArray[Count].Quantity < 3 THEN

Display "less than 3 of this item:",

Display InvArray[Count].Item

ENDIF

END WHILE

ENDSUB Inventory Deficiencies.

## b) User Documentation

- Made in 3rd Stage : Implementation
- Includes : User Manual , Installation Guide, Copyright, Licence, Quick Reference Guide , Troubleshooting Guide
- The documentation for the user must be completed here as the project has been implemented + only needs to be tested. Changes will not occur in the design of the program, only algorithms + code, Hence user can be given guides now.

## Process Dianies

- Made From Stage 1 to 4: All except Maintenance
  - Allows any maintenance engineer to see problems encountered + how they were fixed. Allows him/her to determine whether these fixes can be used to current situation, or whether solution was only temporary
- The Documentation occurs in every stage because changes and planning + solving problems must be done in every stage.