**Pseudocode For Problem**

**PROGRAM** DailyTrackOfBaskets

fullSize = 30

halfSize = 20

pullAlong = 25

**BEGIN** Main Procedure

**CALL** ShowMenu

**READ** optionChoosen

**CASE** optionChoosen **OF**

1 : **CALL** IssuedBasket

2 : **CALL** ReturnedBasket

3 : **CALL** ShowBasketAvailavility

4 : **CALL** ShowBasketPopularity

5 : **CALL** ShowBasketLost

6 : **CALL** Exit

**OTHER** : **PRINT** "Error!" **CALL** Main Procedure

**ENDCASE**

**END**

**Functions defined**

**Show menu function**

**BEGIN** ShowMenu

**PRINT** “Press 1 for Issued Basket”

**PRINT** “Press 2 for Returned Basket”

**PRINT** “Press 3 for Check Availability of Basket”

**PRINT** “Press 4 for Check Popularity of Basket”

**PRINT** “Press 5 for Check Lost Basket”

**PRINT** “Press 6 for Exit”

**END**

**Issued Basket Functuion**

**BEGIN** IssuedBasket

**PRINT** “Select Basket Type”

**PRINT** “Press 1 for Full-size Basket”

**PRINT** “Press 2 for Half-size Basket”

**PRINT** “Press 3 for Pull-along Basket”

**PRINT** “Press 4 for Main Menu”

**READ** optionChoosen

**CASE** optionChoosen **OF**

**IF** optionChoosen == 1 **THEN**

**PRINT** “Enter Basket allocate in range (1001-1030)”

**READ** allocate\_number **OF**

**SET** IsssuedBasketArray = **ADD** allocate\_numbe **TO** IsssuedBasketArray

**SET** cash = **ADD** £5 **TO** cash

**SET** fullSize = **SUBTRACT** 1 **FROM** fullSize

**CALL** IssuedBasket

**ELSE IF** optionChoosen == 2 **THEN**

**PRINT** “Enter Basket allocate in range (2001-2020)”

**READ** allocate\_number **OF**

**SET** IsssuedBasketArray = **ADD** allocate\_numbe **TO** IsssuedBasketArray

**SET** cash = **ADD** £5 **TO** cash

**SET** halfSize = **SUBTRACT** 1 **FROM** halfSize

**CALL** IssuedBasket

**ELSE IF** optionChoosen == 3 **THEN**

**PRINT** “Enter Basket allocate in range (2001-2020)”

**READ** allocate\_number **OF**

**SET** IsssuedBasketArray = **ADD** allocate\_numbe **TO** IsssuedBasketArray

**SET** cash = **ADD** £5 **TO** cash

**SET** pullAlong = **SUBTRACT** 1 **FROM** pullAlong

**CALL** IssuedBasket

**ELSE IF** optionChoosen == 4 **THEN**

**CALL** Main Procedure

**ELSE IF** optionChoosen == other **THEN**

**PRINT** “Invalid Input!!”

**CALL** IssuedBasket

**ENDIF**

**END**

**Returned Basket Functuion**

**BEGIN** ReturnedBasket

**SET** ReturnedBasketArray = **ADD** allocate\_numbe **TO** ReturnedBasketArray

**SET** IssuedBasketArray = **SUBTRACT** allocate\_numbe **FROM** IsssuedBasketArray

**SET** cash = **SUBTRACT** £5 **FROM** cash

**PRINT** “Ask customer to rate this basket (1-5)

**READ** rateStar

**IF** rateStar >= 3 **THEN**

**SET** MostPopularBasket = **ADD** allocate\_numbe **TO** MostPopularBasket

**Else IF** rateStar < 3 **THEN**

**SET** LeastPopularBasket = **ADD** allocate\_numbe **TO** LeastPopularBasket

**ENDIF**

**PRINT** “Enter 0 for Main Menu”

**READ** number

**IF** number == 0 **THEN**

**CALL** MainMenu

**END**

**ShowBasketAvailavility Functuion**

**BEGIN** ShowBasketAvailavility

**FOR** counter = IssuedBasketArray.length **TO** 1 **STEP** -1 **DO**

**IF** counter >= 1001 **AND** counter <= 1030  **THEN**

**SET** FullSizeOnLoan = **ADD** 1 **TO** FullSizeOnLoan

**ELSE** **IF** counter >= 2001 **AND** counter <= 2020  **THEN**

**SET** HalfSizeOnLoan = **ADD** 1 **TO** HalfSizeOnLoan

**ELSE IF** counter >= 2001 **AND** counter <= 2020  **THEN**

**SET** PullAlongOnLoan = **ADD** 1 **TO** PullAlongOnLoan

**ENDIF**

**NEXT** counter

**ENDFOR**

**PRINT** “Overall On Loan”

**PRINT** FullSizeOnLoan, HalfSizeOnLoan, PullAlongOnLoan

**FOR** counter = ReturnedBasketArray.length **TO** 1 **STEP** -1 **DO**

**IF** counter >= 1001 **AND** counter <= 1030  **THEN**

**SET** FullSizeNotLoan = **ADD** 1 **TO** FullSizeNotLoan

**ELSE** **IF** counter >= 2001 **AND** counter <= 2020  **THEN**

**SET** HalfSizeNotLoan = **ADD** 1 **TO** HalfSizeNotLoan

**ELSE IF** counter >= 2001 **AND** counter <= 2020  **THEN**

**SET** PullAlongNotLoan = **ADD** 1 **TO** PullAlongNotLoan

**ENDIF**

**NEXT** counter

**ENDFOR**

**PRINT** “Overall On Not Loan”

**PRINT** FullSizeNotLoan, HalfSizeNotLoan, PullAlongNotLoan

**PRINT** “Enter 0 for Main Menu”

**READ** number

**IF** number == 0 **THEN**

**CALL** MainMenu

**END**

**Show Popular Basket Functuion**

**BEGIN** ShowBasketPopularity

**PRINT** “Most Popular Baskets”

**FOR** counter = MostPopularBasket.length **TO** 1 **STEP** -1 **DO**

**PRINT** counter

**NEXT** counter

**ENDFOR**

**PRINT** “Least Popular Baskets”

**FOR** counter = LeastPopularBasket.length **TO** 1 **STEP** -1 **DO**

**PRINT** counter

**NEXT** counter

**ENDFOR**

**PRINT** “Enter 0 for Main Menu”

**READ** number

**IF** number == 0 **THEN**

**CALL** MainMenu

**END**

**Show Lost Basket Functuion**

**BEGIN** ShowBasketLost

**IF** fullSize != 30 **THEN**

**PRINT** “Full Size Basket Lost Today are:”

**SET** fullBasketLost = **SUBTRACT** 30 **FROM** fullSize

**PRINT** fullBasketLost

**IF** halfSize != 20 **THEN**

**PRINT** “Half Size Basket Lost Today are:”

**SET** halfBasketLost = **SUBTRACT** 20 **FROM** halfSize

**PRINT** halfBasketLost

**IF** pullAlong != 25 **THEN**

**PRINT** “Pull Along Basket Lost Today are:”

**SET** pullAlongBasketLost = **SUBTRACT** 25 **FROM** pullAlong

**PRINT** pullAlongBasketLost

**END**

**Main Menu Functuion**

**BEGIN** MainMenu

**CALL** Main Procedure

**END**

**Exit Functuion**

**BEGIN** Exit

Exit()

**END**