WORKSHOP 7 PSUEDOCODE GROUP SOLUTION

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1. Sub process “Membership limit exceed”

DATA STRUCTURE :

Barcode chip information = B.C.I

Price and category of car wash options =  $ 5.50 (Basic) , $ 8.75 (Clean) & $12.50 (Super Clean)

Maximum number of washes = 2        Option chosen for subscription = O.C.S  , Wash\_price

VARIABLE :

Car washing option chosen on kiosk = C.W.K

Number of car wash attempts by member that day = N.A

PSEUDOCODE :

1. \*\*\* Start
2. Detect the barcode chip on windshield of the vehicle.
3. Scan B.C.I .
4. Ask customer to if he wants to select the O.C.S or wants to choose any other option.
5. Store selected car wash option in C.W.K .
6. Customer has prepaid subscription

i. YES ; check whether C.W.K = O.C.S

a) YES ; check N.A < 2

1. TRUE ; no charge and go to step 9
2. FALSE ; ask if the customer  wants to exceed the limit of N.A by telling that he will be charged for the wash
3. NO , ERASE THE DATA AND RESET THE MACHINE
4. YES, ask if he wants to change the C.W.K and move to step 7

b)  NO ; go to step 6 (ii) ii. NO ; go to step 7

1. Charge = Price of C.W.K
2. Ask customer to pay charge using CREDIT CARD <<<NO CASH>>>
3. GENERATE RECEIPT
4. Once payment is received direct the vehicle towards carwash area  11. END  \*\*\*
5. SUB PROCESS “Regular customer”

Variables

Basic car wash = B

Clean car wash = C

Super clean car wash = SC

Start

1. Customer approaches the kiosk.
2. Ask for “Car Wash Options”.
3. Enter the car wash option, if
4. Option ‘B’, Wash\_price = $ 5.50
5. Option ‘C’ Wash\_price = $ 8.75
6. Option ‘SC’ Wash\_price = $ 12.50
7. Store the value in Wash\_price.
8. Ask for payment by Credit card.
9. Payment successful.

End

1. SUB PROCESS “Monthly member same wash”

**Variables;**

More than 2 car washes – 2CW

Open Gate to enter the cash wash for user – OG

Type of Car Wash - TCW

**Pseudocode;**

1. Start
2. Check if there is bar code

if yes continue to 3

if no call logic 3

1. Scan barcode and check if member has a valid monthly pass

If yes then proceed to step 4

If no then call logic 3

1. Check if member has exceeded 2CW

If yes call logic 3

If no continue to 5

1. Check if member wants to override his current prepaid type to another one

If yes call logic 3

If no continue to step 6

1. Check the TCW selected at the beginning and continue to 7
2. Charge accordingly
3. Once payment goes through print receipt
4. Continue and OG and then allow user to do car wash of his type
5. Wash the car according to the TCW
6. End

MAIN PROCESS

Start

1. Customer approaches the car wash.
   1. Selects an option for the type of wash at the kiosk.
      1. Call subprocess “regular customer”.
   2. Is a ‘member’ customer ?
   3. Scan the code on windshield
   4. Determine the type of wash purchased.
   5. Member wants to decline the already purchased wash type or the limit of 2 washes daily exceeded.
      1. Call subprocess “membership limit exceed”.
2. Print the receipt.

END

Test cases

Start

1. Car approaches the kiosk.
2. The customer is a regular customer.

a)Selects the option of the type of wash needed regular prices charged.

b) completes the wash.

c) go to step 5.

1. The customer is a member.
   * 1. Scan the barcode on the windshield.
     2. Proceed with the preseted wash type.
     3. Go to step 5.
2. The customer is a member but either exceeded limit or wants to change wash type.
   1. Scan the QR code and charge the customer with regular prices.
   2. Go to step 5.
3. Car out of the carwash.
4. Print the receipt with details of charges.

END