1. Start
2. Display “Welcome to the Auto Car Wash Kiosk!”
3. Declare variables: Declare customer\_type, customer\_tier, price, gotPaymen, choice
4. Identify customer: *customer\_type* = GetCustomerType()

//VIP Customer

1. IF *customer\_type* == "VIP"
   1. Display "Would you like to use your existing wash tier? (Yes/No)"
   2. Assign input to the *choice*
   3. IF choice == "Yes"
      1. customer\_tier = GetContractedTier()
      2. price = GetPrice(customer\_tier, isVIP=true, isSameTier=true)
      3. gotPayment = GetPayment(price)
         1. IF *gotPayment* == TRUE
            1. PrintReceipt(*customer\_tier*, *price)*
            2. StartCarWash(*customer\_tier*)
         2. ELSE
            1. HandlePaymentFailure(*price*)

// VIP Customer BUT DIFFERNT TIER

* 1. ELSE
     1. *customer\_tier* = GetCarWash()
     2. *price* =GetPrice(customer\_tier, isVIP=true, isSameTier=false)
     3. *gotPayment* = GetPayment(*price*)
     4. IF gotPayment == true THEN
        1. PrintReceipt(*customer\_tier*, *price*)
        2. StartCarWash(*customer\_tier*)
     5. ELSE
        1. HandlePaymentFailure(*price*)

//Regular NON VIP Customer

1. ELSE IF customer\_type == "Regular"
   1. *customer\_tier* = GetCarWash()
   2. *price* = GetPrice(*customer\_tier*, *isVIP*=false, *isSameTier*=false)
   3. *gotPayment* = GetPayment(*price*)
   4. IF *gotPayment* == true
      1. PrintReceipt(*customer\_tier*, *price*)
      2. StartCarWash(*customer\_tier*)
   5. ELSE
      1. HandlePaymentFailure(*price*)
2. End

**Function** GetCustomerTyper()

1. If ScanBarcode() == true
   1. Return “VIP”
2. Else
   1. Return “Regular”

**Function** GetCarWash()

1. Initialize selection
2. Display “Please select a 1, 2, 3 car wash tier:”
3. Display:

Clean - $6

Sparkling - $11

The Works - $20

1. selection = input
2. Return selection

**Function** GetPrice(tier, isVip, isSameTier)

1. IF *tier* == 1
   1. *base\_price* = 6.00
   2. Else IF *tier* == 2
      1. *base\_price* = 11
   3. Else IF *tier* ==3
      1. *base\_price* = 20
2. If *isVIP* == TRUE AND *IsSameTier* == true
   1. Return *base\_price* \*0.5
   2. Else
      1. Return *base\_price*

**Function** GetPayment(amount)

1. Start Payment
2. *confirmation* = Wait for payment Confirmation
3. if(confirmation)
   1. Return True
4. Else
   1. Return False

**Function** HandlePaymentFailure(amount)

1. Display “Failed Payment! Try again (Y/N)”
2. response = input
3. IF response = ‘Y’
   1. gotPayment = getPayment(price)
   2. If gotPayment = TRUE
      1. PrintReceipt(cusomter\_tier, price)
      2. StartCarWash(customer\_tier)
   3. Else
      1. HandlePaymentFailure(price)
4. Else
5. Display “Failed Payment!
6. EXIT

// OUTSIDE OF SCOPE FUNCTIONS

Function PrintRecipt()

….Prints Reciept

Function StartCarWash()

…Starts Car Wash

Function ScanBarcode()

…Scans Barcode