Package Delivery Application Features Pseudocode

#Main Menu

Main-menu function()

While True

      Display 'Main Menu with options 1,2,3,4'

            Number 1 for Calculate the cost of a package.

            Number 2 for Calculate the delivery time of a package.

            Number 3 to save a receipt for a delivery booked.

            Number 4 to 'Exit'

      Input for number selection

      If input equal to 1

            Option 1 : package_cost()

      ElIf input equal to 2

            Option 2 : del_estimate()

      ElIf input equal to 3

            Option 3 : del_receipt()

      Elif input equal to 4

            Return

      Else

            Display "Not recognised. Please enter a CORRECT number."

            Break

      EndIf

End While

#Option 1:

Package_cost function:

Set delivery_job dictionary

Input 'Ask user to enter name & contact number'

Input 'Ask the user the sender postcode'

Call send_code()   *# Validates Postcode entered and Calls post_zone() function for postal zone number the postcode falls within.*

Set name, contact number, postcode to delivery_job

Set post_zone_from

Input 'Ask the user the receivers name and delivery address'

Input 'Ask the user the receivers postcode'

Call send_code()   *# Validates Postcode entered and Calls post_zone()*
function for postal zone number the postcode falls within.

Set delivery name, address, delivery postcode to delivery_job

Set post_zone_to

Input 'Ask the user to enter package details in centimetres (Length,Width,Height)'

Call cubic_weight()   *# calculate the package cubic metre weight*

Set cub_weight

Input 'Ask the user to enter package weight in kilograms'

Set act_weight

If any inputs greater than 105cm

      Display "Apologies but a dimension was larger than 105cm. This is to large for Aust Post to accept over the counter. Please contact for delivery options. "

      Return

Elif cub_weight equal to -1

      Display "Apologies but the cubic weight is larger than 0.25 cubic meters. This is to large for Aust Post to accept over the counter. Please contact for delivery options. "

      Return

Elif act_weight greater than 22

      Display "Apologies but the weight is greater than 22kg. This is to large for Aust Post to accept over the counter. Please contact for delivery options."

      Return

EndIf

If cub_weight greater than act_weight

      package_weight equals cub_weight

Else

      package_weight equals act_weight

EndIf

Call freight_rate()   *# calculate the package freight charge for the package_weight*

Set freight_value

If package_weight greater than 5

       Call zone_charge()   *# sends arguments of post_zone_from, post_zone_to and returns the charge_rate (extra surcharge rate per 1kg over 5kg package weight) between the 2 zones.*

       delivery_cost equals freight_value plus (charge_rate multiply (package_weight minus 5))

Else

       delivery_cost equals freight_value

EndIf

Set delivery_cost to delivery_job

Display 'Package delivery details'

Input 'Ask user to book / save the delivery job? Y for yes / N for No'

While True

       If Y

              Set delivery_number

              Set delivery_number to delivery_job

              write delivery_job to a json file and save to delivery_jobs folder.

              Display 'Your delivery number is: deliver_number . Please record your delivery number'

              Break

       Elif N

              Return

       Else

              Display 'Invalid option. Please select Y for Yes OR N for No.'

       EndIf

End While

Return

#Option 2

Del_estimate function:

Input 'Ask user the sending postcode'

Call send_code()   *# Validates Postcode entered and Calls post_zone()*
function for postal zone number the postcode falls within.

Set post_zone_from & postcode_from

Input 'Ask user the receivers postcode'

Call send_code()   *# Validates Postcode entered and Calls post_zone()*
function for postal zone number the postcode falls within.

Set post_zone_to & postcode_to

Call del_time()   *# calculates the estimated delivery time in days*

Display the delivery_time

Return

#Option 3:

Del_receipt function:

Input 'Ask user to enter delivery_number'

Find delivery_number json file

Read delivery_number json file

Display delivery details

Input "Do you want to save the receipt (Y for Yes or N for No)"

While True

    If input equal to Y

        Write del_receipt to a .txt file and save to delivery_receipts folder.

    Elif equal to N

        Return

    Else

        Display 'Invalid option. Please select Y for Yes OR N for No.'

    EndIf

End Whille

Return