

## 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 rece\_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'

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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 rece_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

Call km_distance()              #calculates the estimated distance in kms from the 2
postcodes entered.

Display the delivery_time & distance in kms.

Return

```

### **#Option 3:**

#### **Del\_receipt function:**

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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 While

Return

```

