# Pseudocode - Numbers & Math Class

import array list

import list

import scanner

import number format

create main method

create a double variable called total and assign value of 0

create a double variable called taxPercent and assign it a value of 0.025

create a double variable called tipPercent and assign it a value of 0.175

create a string variable called totalResult

create a string variable called taxAmount

create a string variable called taxOutResult

create a string variable called tipAmountResult

create a string variable called tipOutResult

create a list of doubles called items using ArrayList

display to the user what the program does

create a int variable called request and set it to 1

create a while loop for request equal to 1

use the scanner to get the value from the user

display a request to the user to enter a value, select 0 will end request

set value entered to a double variable called cost

if statement, value of cost greater than 0

add cost to items list

else if statement, value of cost less than 0

display to user value has to a positive number

else statement (cost = 0)

set request variable to 0

if statement, items list is empty

display to user no values were added and program will end

else statement

for loop, for each item in the items list

add the value to the variable total

use number format to get the instance of the number

use number format to group by threes

use number format to set max number of decimal places to 2

use number format to set min number of decimal places to 2

use number format to round total to 2 decimal places and assign it to totalResult variable

display to user the sum of the entered values is equal to totalResult

create a double variable called tax and assign it a value of tax multiplied by taxPercent

use number format to round tax to 2 decimal places and assign it to taxAmount

display to the user the tax due on the total amount is equal to taxAmount

create a double variable called taxOut and assign it a value of total added to tax

use number format to round taxOut to 2 decimal places and assign it to taxOutResult

display to the user the total with tax include is equal to taxOutResult

create a double variable called tipAmount and assign it a value of taxOut multiplied by tipPercent

use number format to round tax to 2 decimal places and assign it to tipAmountResult

display to the user the suggested tip amount of 17.5% is equal to tipAmountResult

create a double variable called tipOut and assign it a value of taxOut + tipAmount

use number format to round tipOut to 2 decimal places and assign it to tipOutResult

display to the user the total with tax and tip included is equal to tipOutResult