Sub Main

' First we need to get important design information from an Excel spreadsheet

' This information let's us know how many shell plates (and their sizes) we need based on the length of the tank

GetParametersFromExcel

' Before creating a new assembly, we need to make sure the inlet does not interfere with a hatch or tank seam on the top of the tank

' This is only applicable for tanks that have the inlet located on the top side of the tank body

' This will give an example of how to check inputs before committing to generating geometry

If ValidateSeamsAndHatches = False Then Exit Sub

' Setup project folders, including sub-folders for sub-assemblies

' Then create a new copy of the this file, and rename it based on the PROJECT\_ID

If SetupProjectAndTopAssembly = False Then Exit Sub

' Create a new copy of the tank body assembly based on an existing tank body assembly template

' Then add it to the assembly at the origin and update all the parts based on user inputs

CreateAndConfigureTankBody

' Create a new copy of the skid assembly based on an existing skid assembly template

' Then add it to the assembly at the origin and update all the parts based on user inputs and calculations

CreateAndConfigureSkid

' Create a new copy of the gunline assembly based on an existing gunline assembly template

' Then add it to the assembly at the origin and update all the parts based on user inputs and calculations

' Note that gunline assemblies can only be used on tanks with an OD of 60" or greater

If GUNLINE = True And TANK\_OD >= 60 in Then CreateAndConfigureGunline

' Place the selected manway into the assembly, on the rear dish plate

' Note that manway assemblies can only be used on tanks with an OD of 48" or greater

If MANWAY = True And TANK\_OD >= 48 in Then InsertManwayIntoAssembly

' Place the hatch into the assembly on top of the tank body assembly

' User may have none, 1 or 2 total hatches in the assembly

' User may select hatches in the front or in the back, or both

' Note that hatch assemblies can only be used on tanks with an OD of 60" or greater

InsertHatchesIntoAssembly

' Place the drain nozzles in the assembly

' Drain nozzles are always located near the bottom of the dish plates on each end

' User may select whether or not they want drains in the front and back, and what end connections to use

' Notes that if the tank diameter is 48" or below, 3" drains will be used; otherwise 4" drains will be used

InsertDrainNozzlesIntoAssembly

' Place the Sump Nozzle

If SUMP = True And TANK\_OD >= 60 in Then CreateAndConfigureSump

' Place the Inlet Nozzle as required

InsertInletIntoAssembly

End Sub