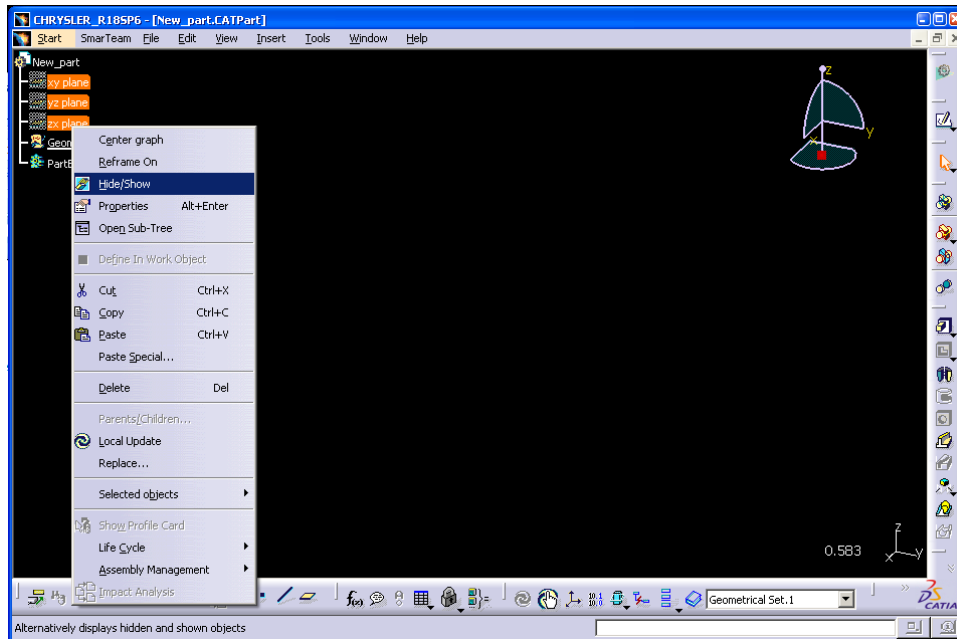


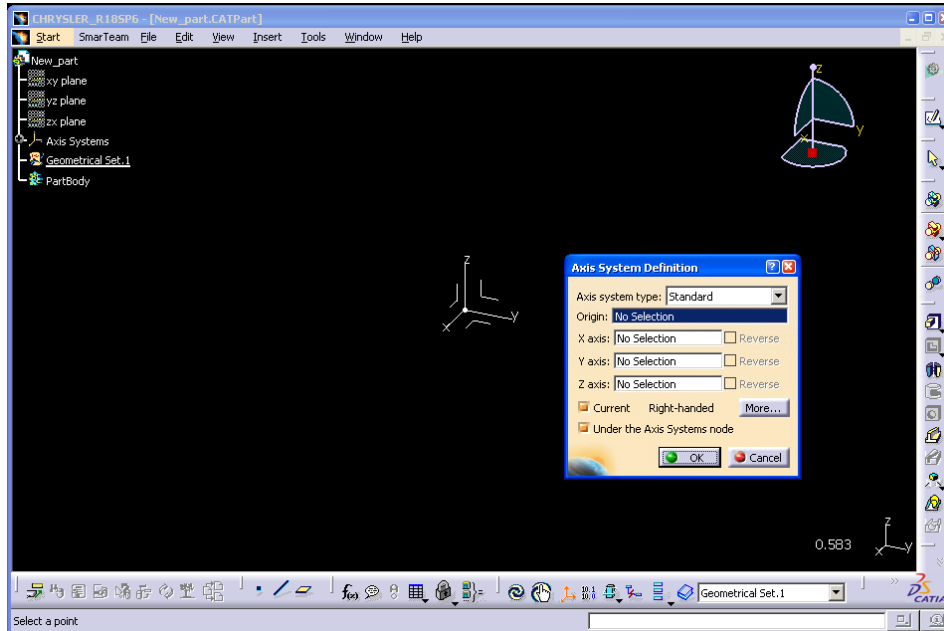
1 - Start a new part

2 - Select the three plans and hide them

Tip – I'm hiding these planes because if we like, in the future, change the position of this Body, it will be hard if we had sketched our profile in one of these planes.



3 - Create an Axis System using  icon, click OK.

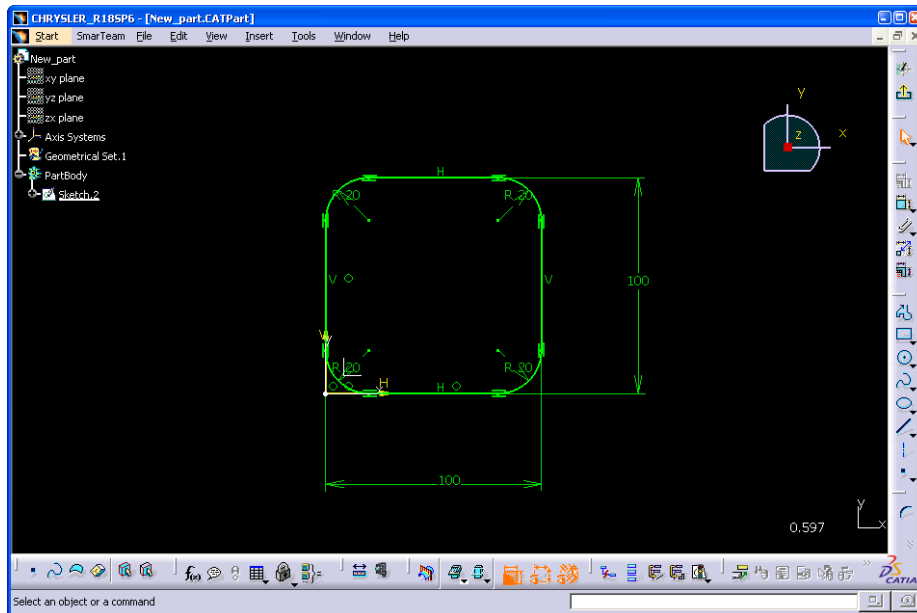


Make sure you have PartBody defined as work object, and does this profile sketch on yx plane.

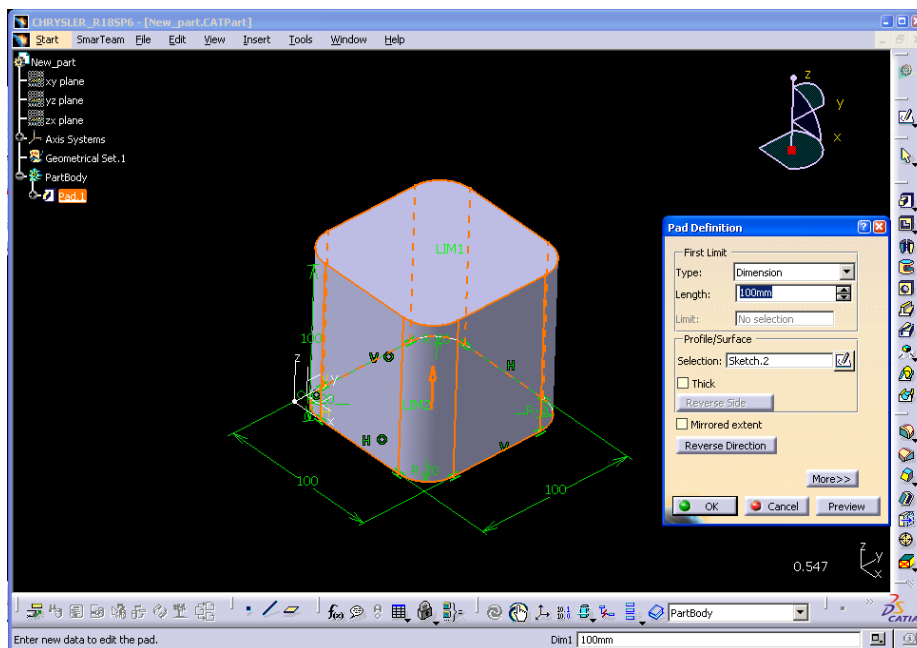
Tip – Doing the sketch in one of the planes of the created Axis System we can change the position and orientation of this Body any time, just changing the Axis system.

If you think this procedure is hard, see my other tutorial about macros on Catia.

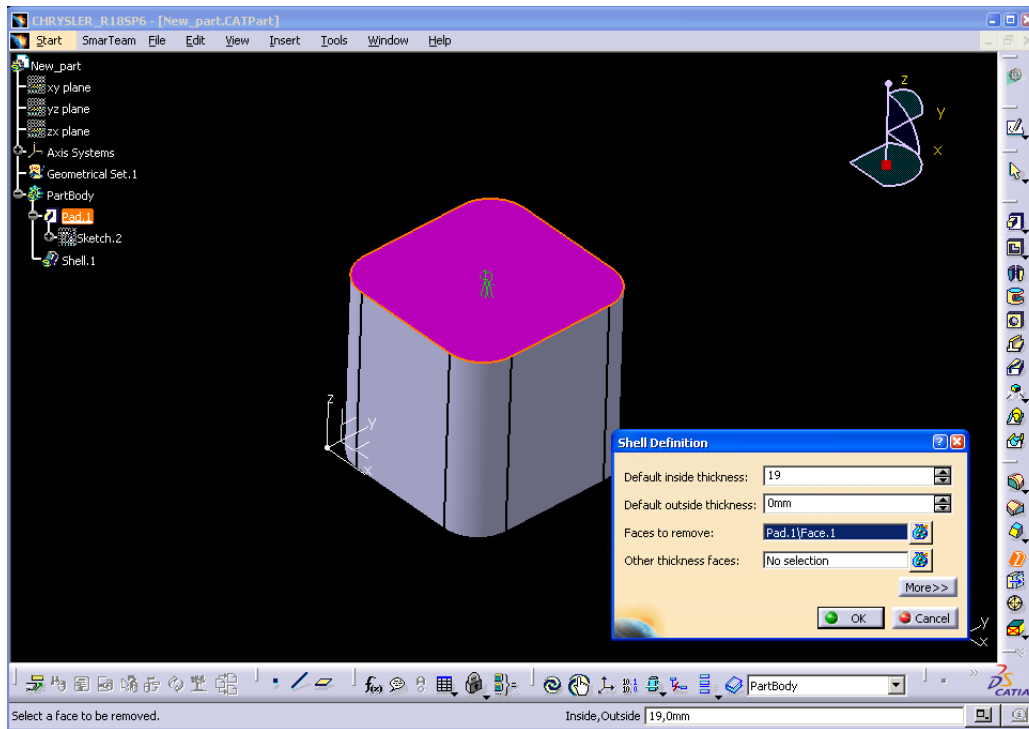
The corner will define your first Shell.



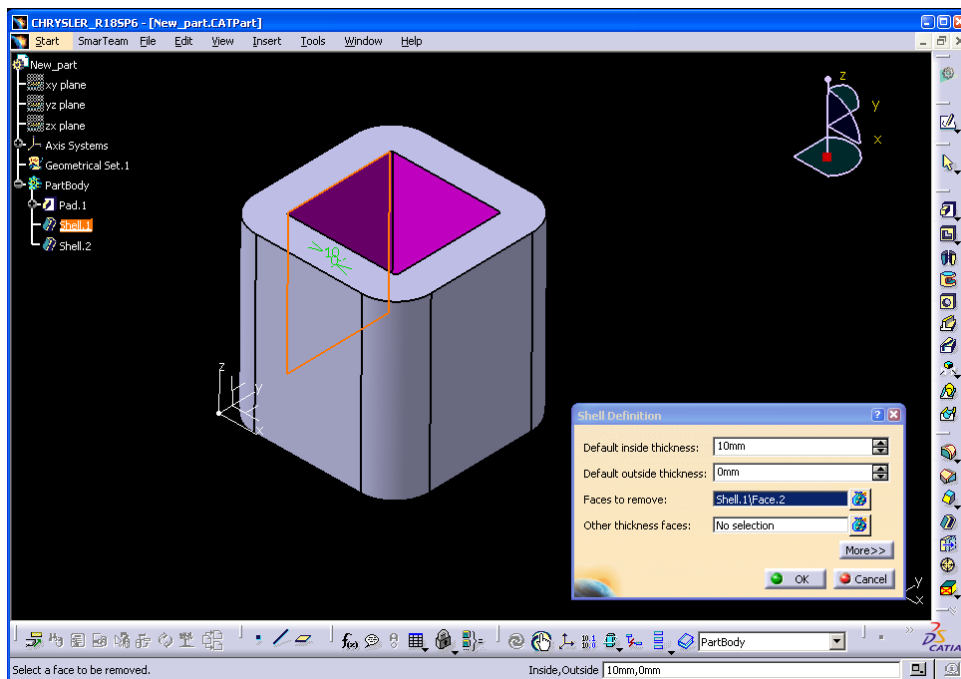
4 - Make a Pad with 100 mm length



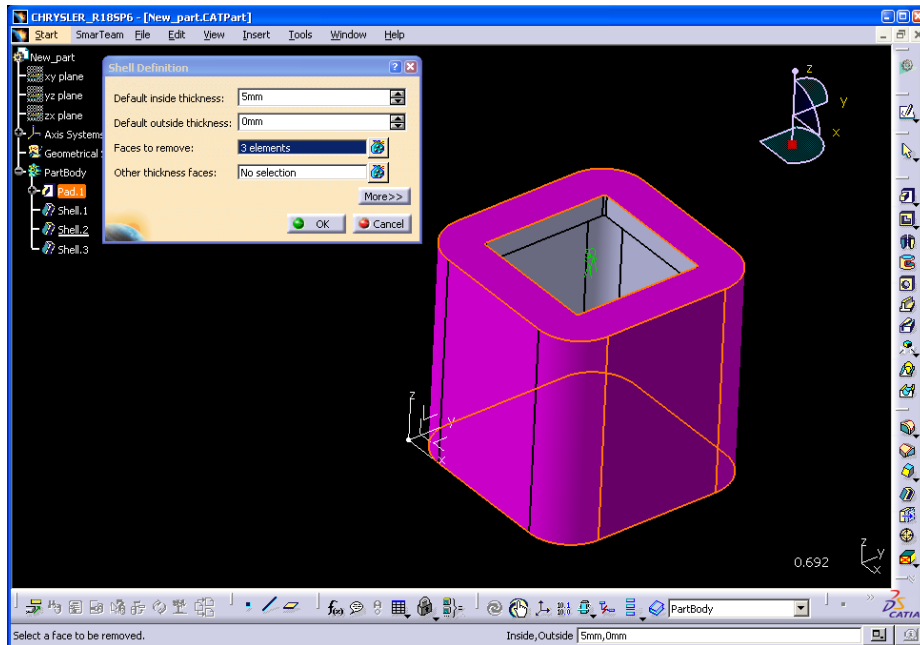
5 - Do a shell, select the upper surface ,but the thickness must be less than the value of the corners defined in the sketch, in this case we will use 19mm ($20 - 1 = 19$)



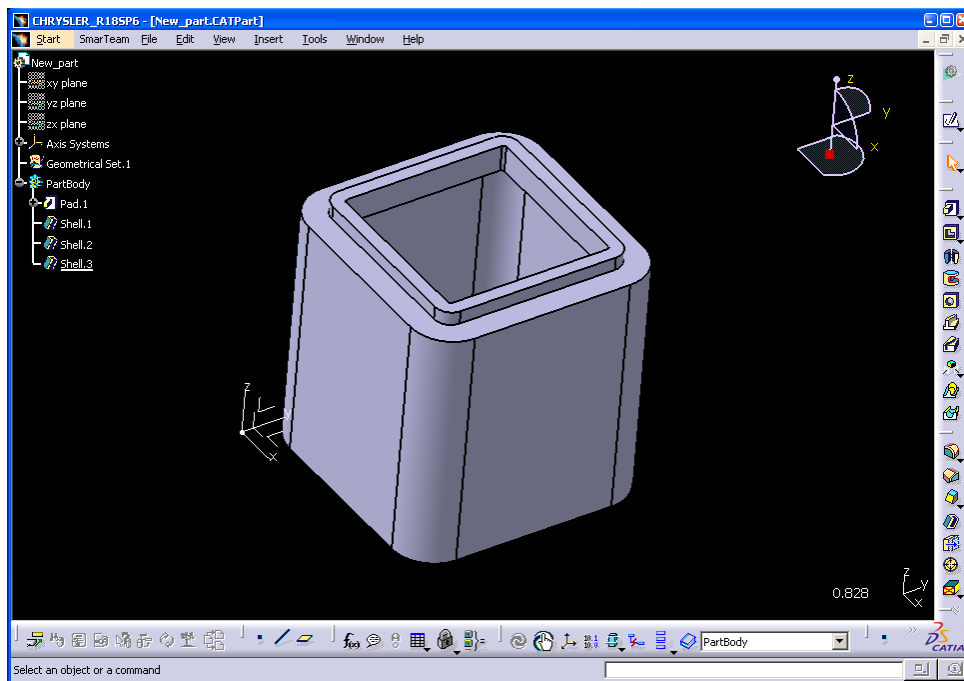
6 - Apply another shell, select all internal surfaces and now use 10mm



7 - Apply another Shell , select all external surface and use 5mm for thickness.

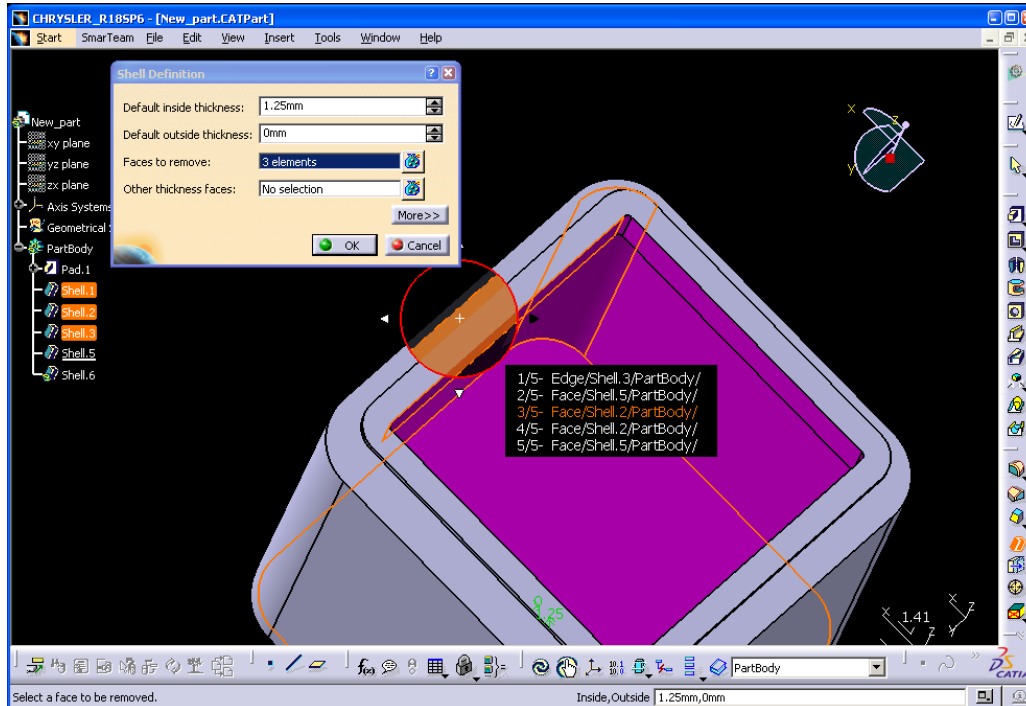


You must have something like this

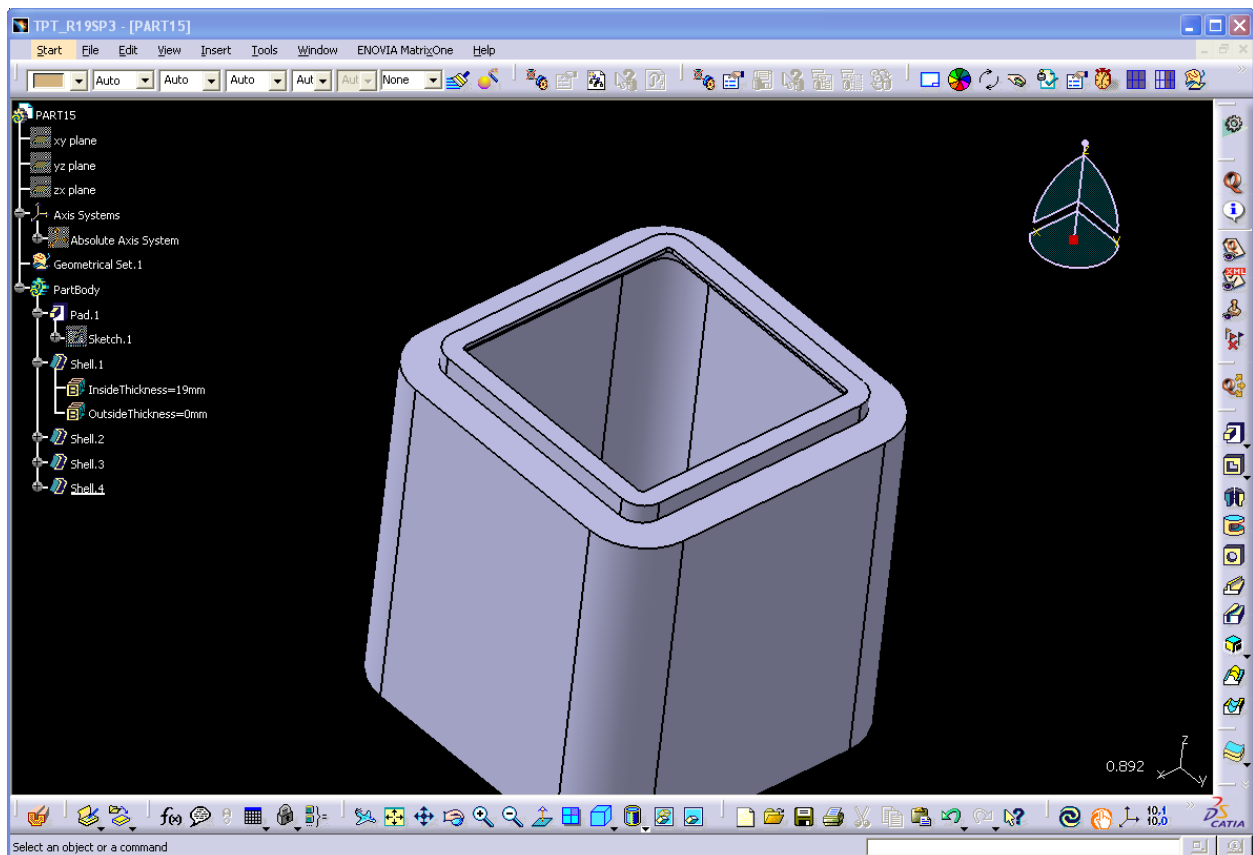


8 - Apply Shell again, thickness 1.25 mm and select all internal surface.

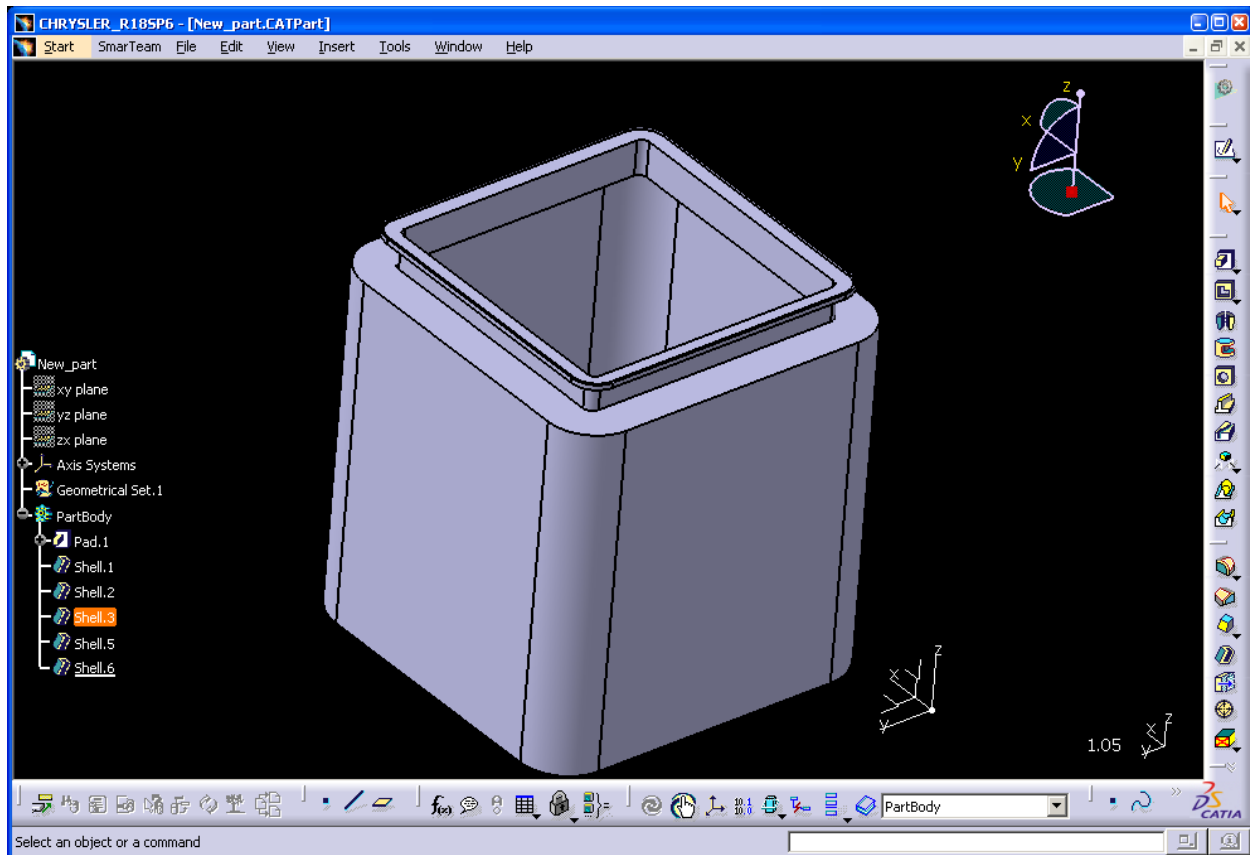
Tip - To select the internal surface you can't see, just place the mouse over the external surface close/parallel to it and hold "up arrow key" , a list will show up and when you pass with the mouse over the element it is selected (highlighted) at part (inside of the circle), click on it to select.



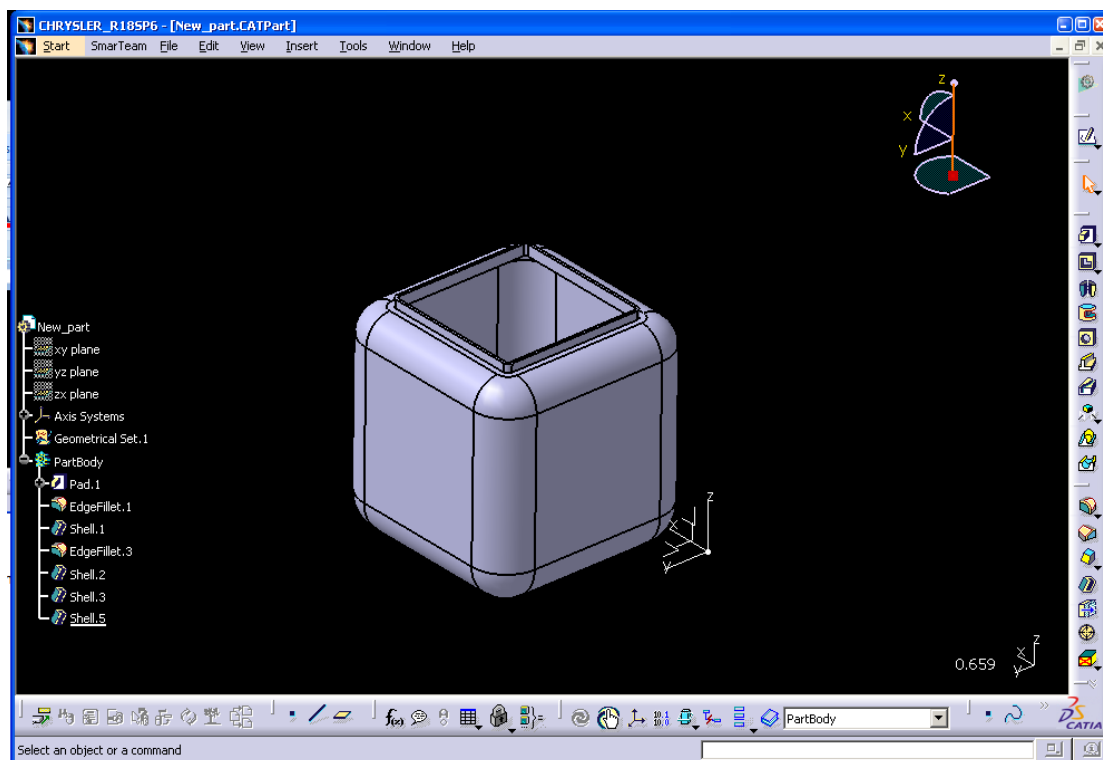
9 - See what you can get, using just one pad and combined Shell commands.



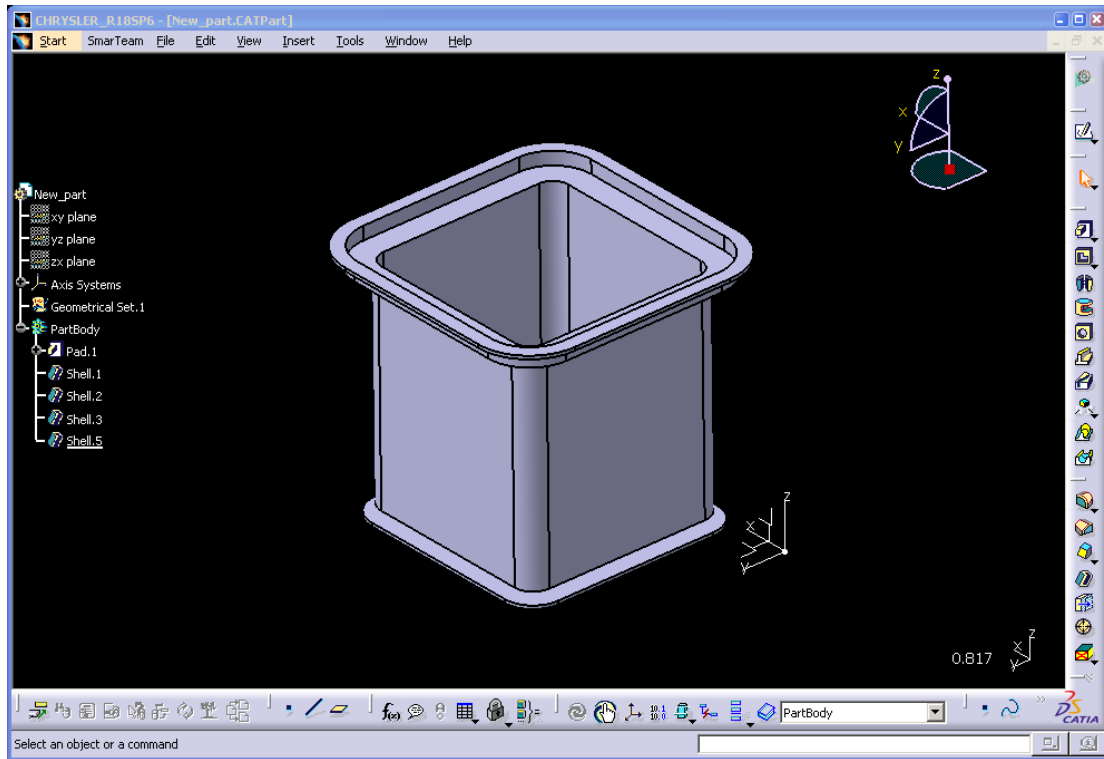
If you chose all external surfaces you will have this.



You can have different models, just adding some corners like these



Or you can just change the sequence of the face selection and get this



Well, you can open your imagination and get thousand shapes just using one command.

Hope you like it?!?!?!?!?