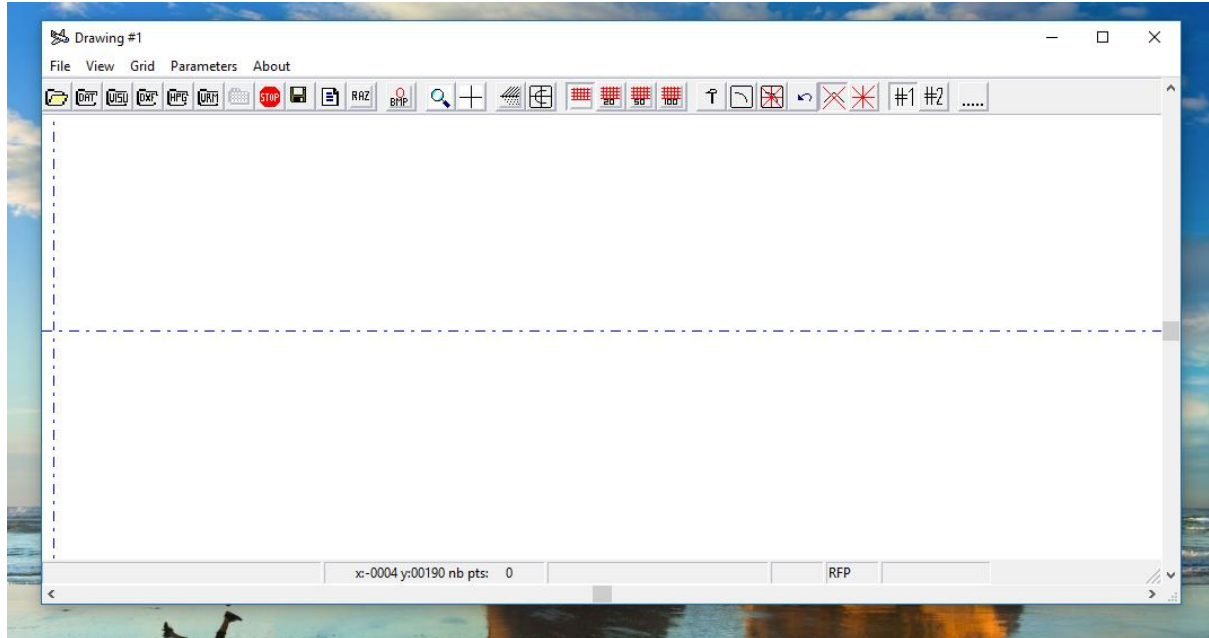


Adding Airfoil to CATIA V5

Step 1

Open Profscan

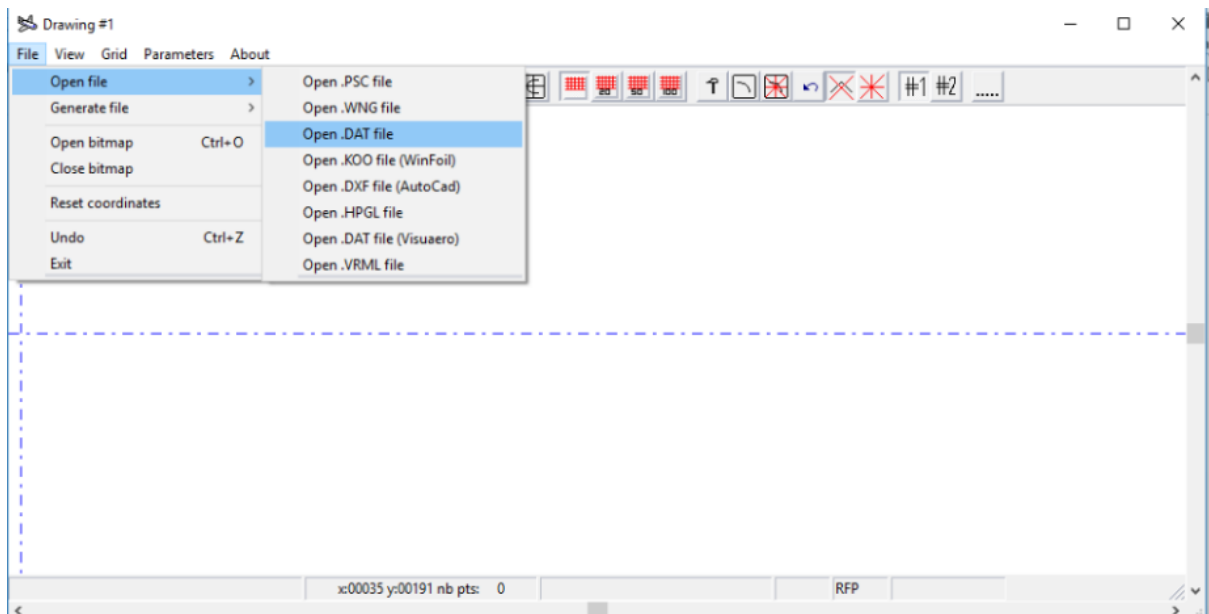


Step 2

Import the .dat file of the airfoil coordinates

File > Open File > Open .DAT File

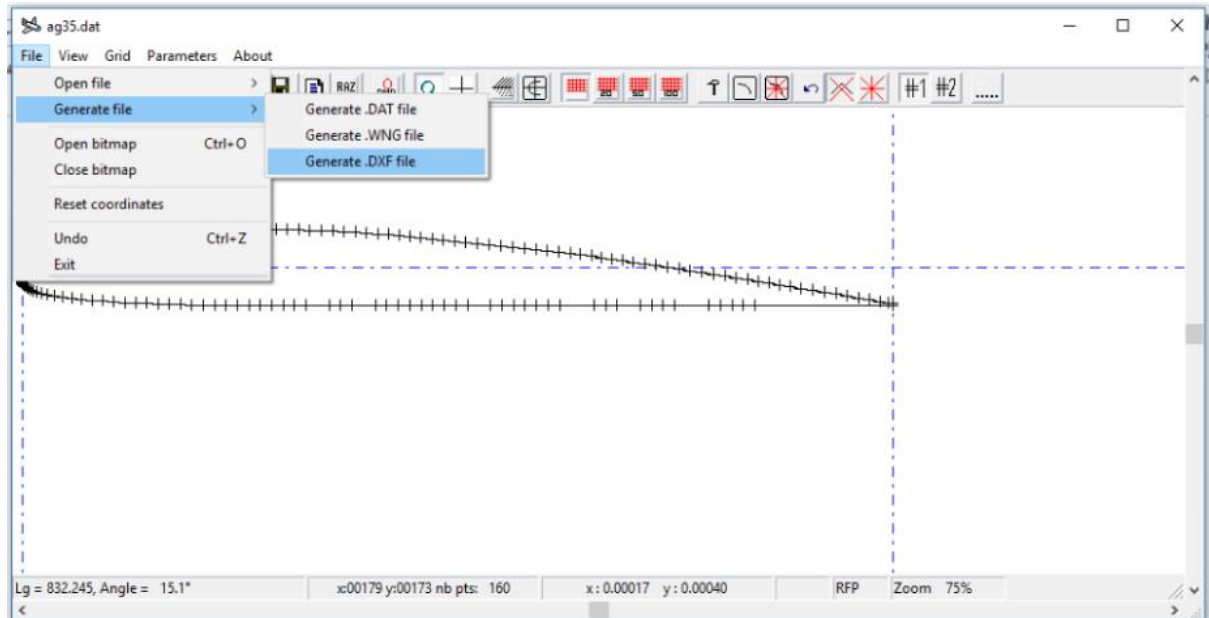
Browse for the .dat file



Step 3

Export the airfoil profile as .dxf file

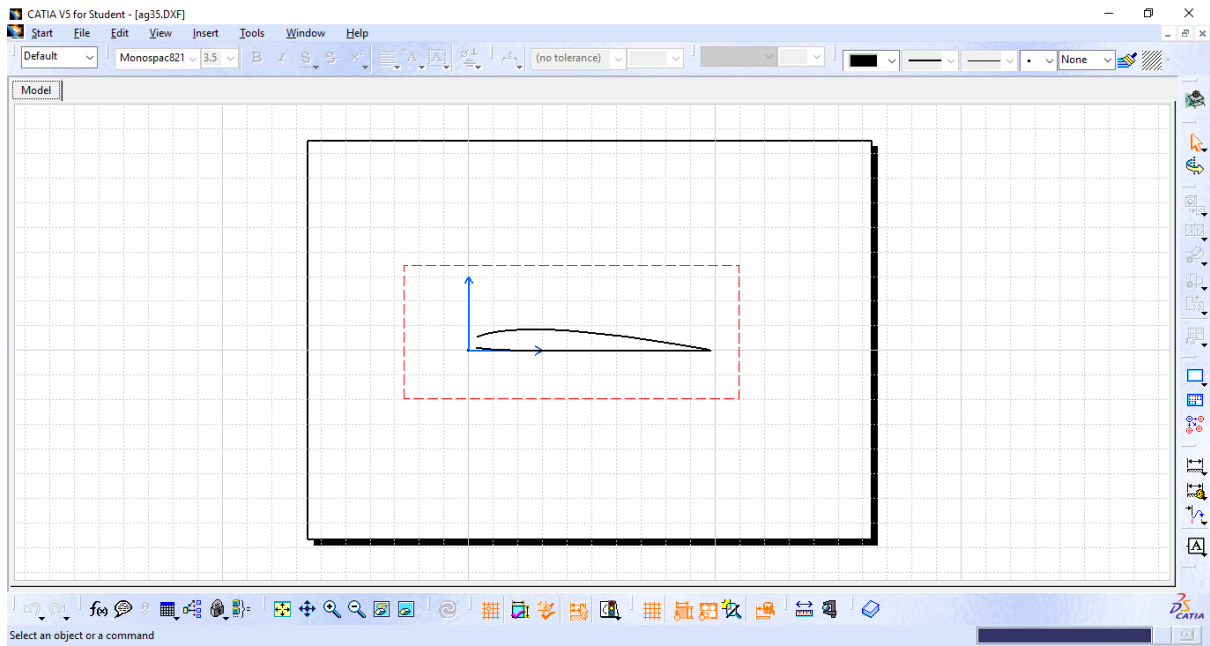
File > Generate File > .DXF File



Step 4

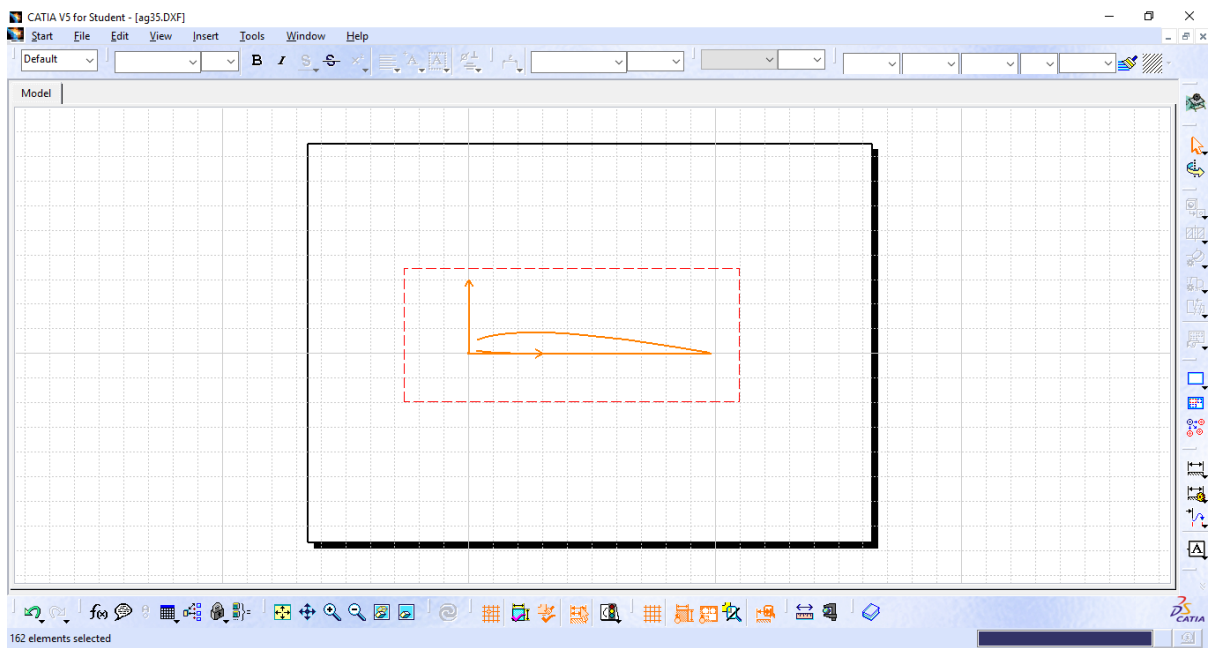
Open the .dxf file in Catia





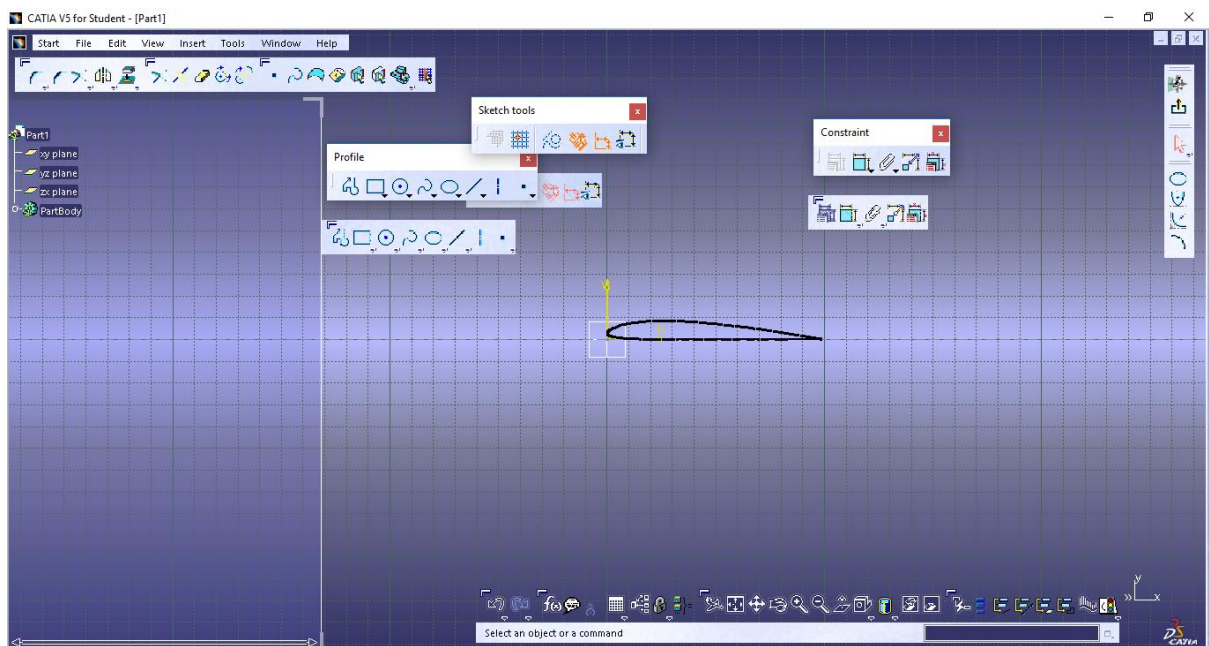
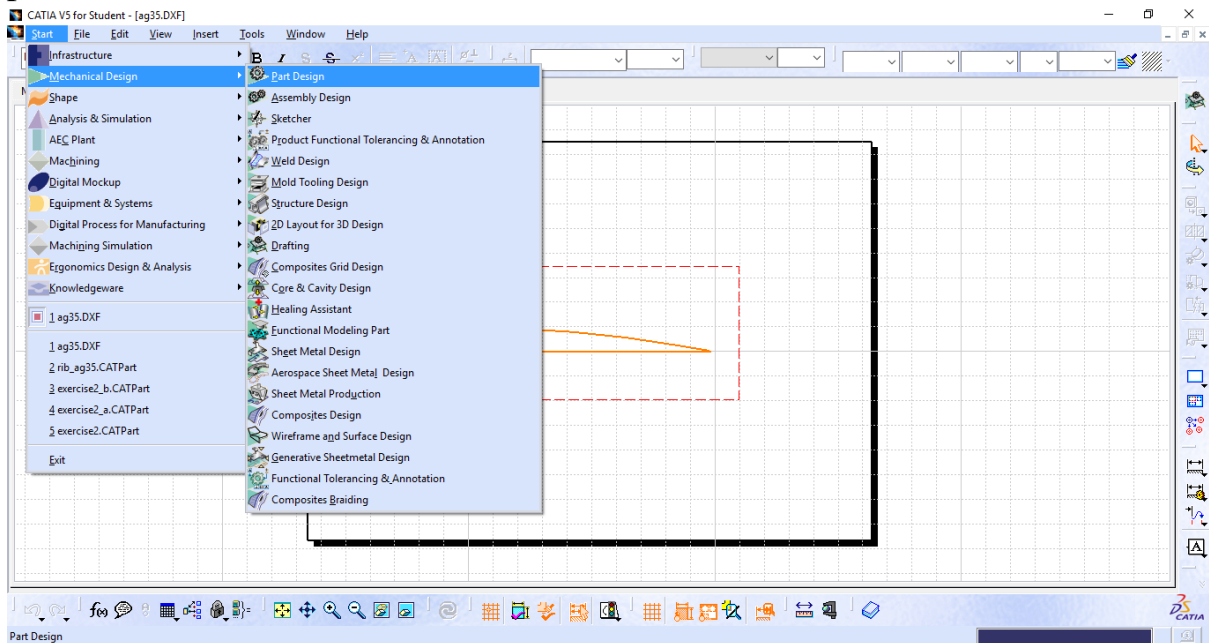
Step 5

Copy the airfoil by selecting and pressing Ctrl+C on the keyboard



Step 6

Open new part design, start sketch in any desired plane and press Ctrl+V to paste the airfoil.

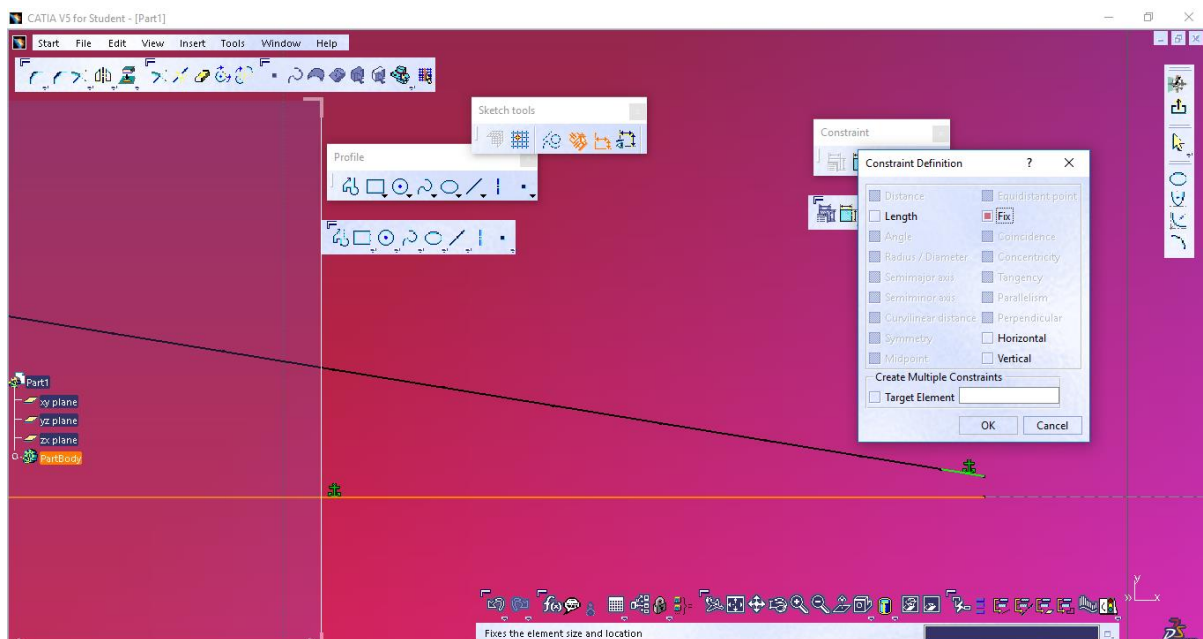
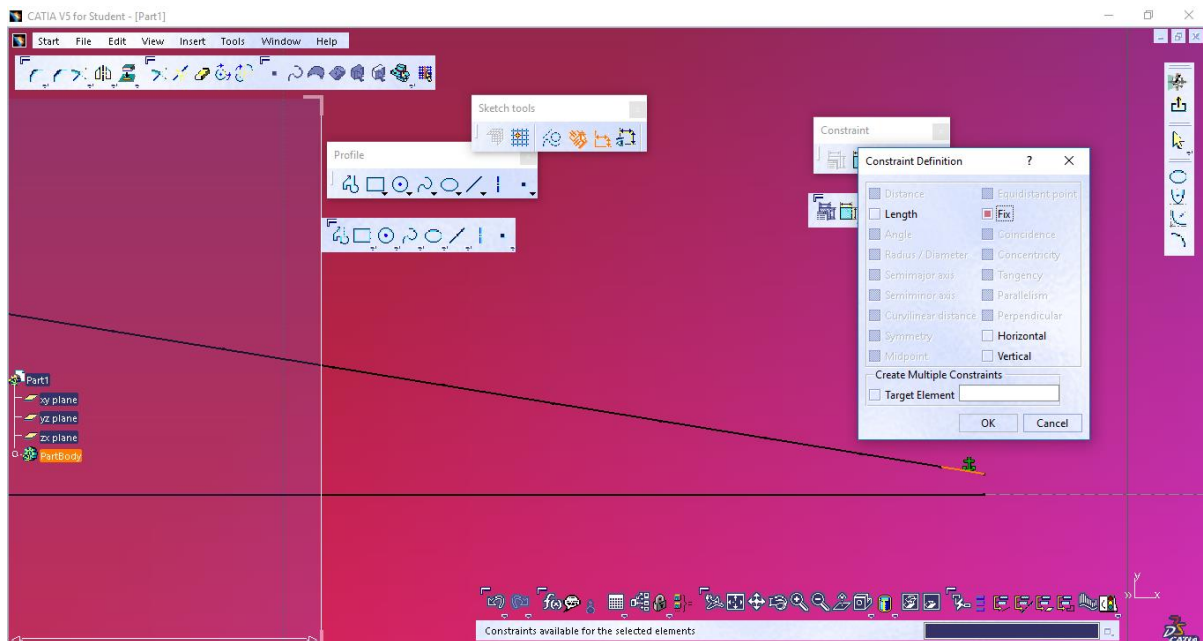


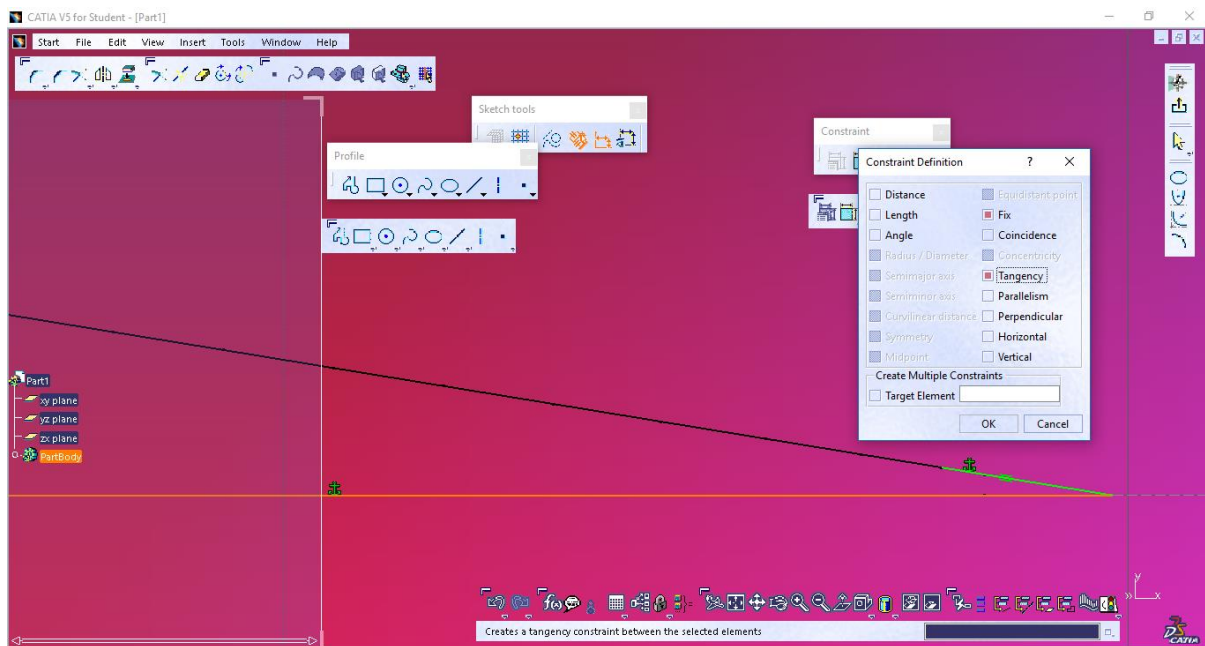
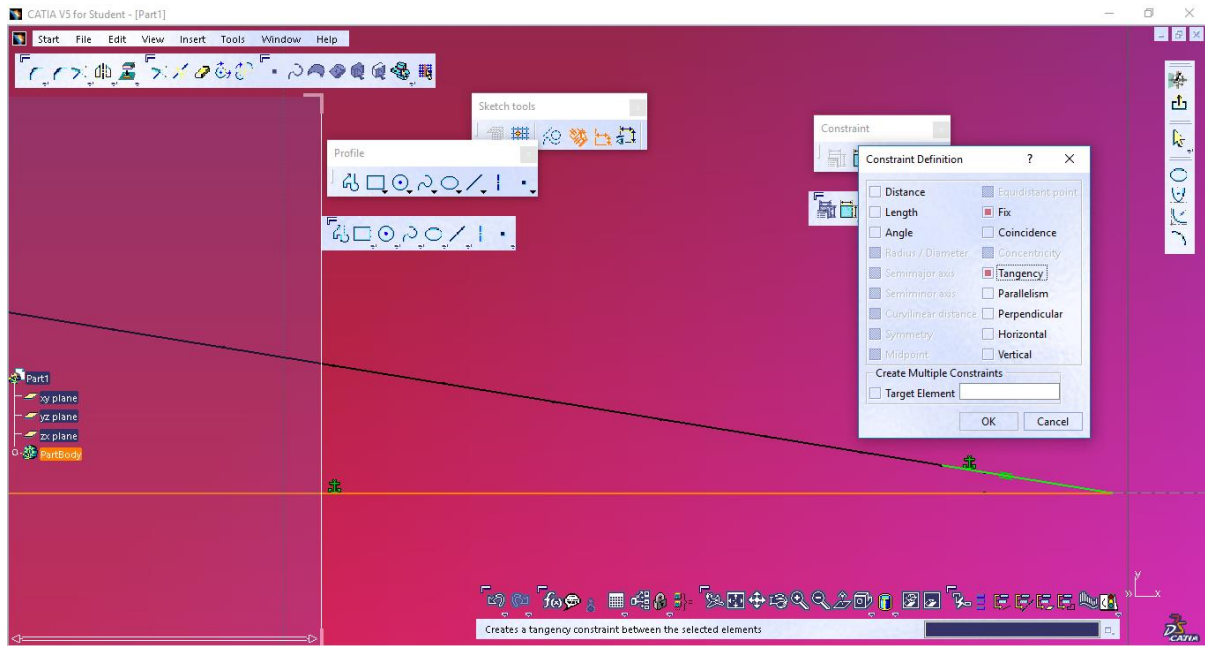
Step 7

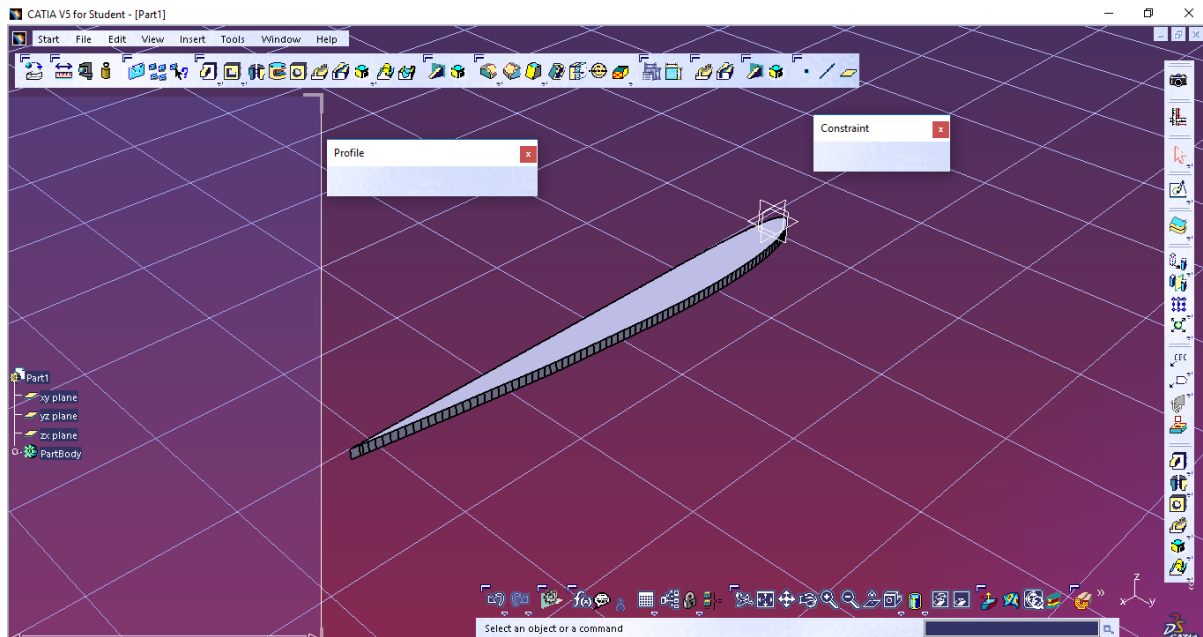
Many airfoils downloaded from UIUC Database don't have a closed trailing edge. It has to closed manually to pad the airfoil successfully.

First fix the open edges using constraint and then close the profile. Also create tangency to the open lines. Check the airfoil for any open ends.

Exit Sketch and pad.







This method is better than importing points from excel as the spline created is better than manually created spline.