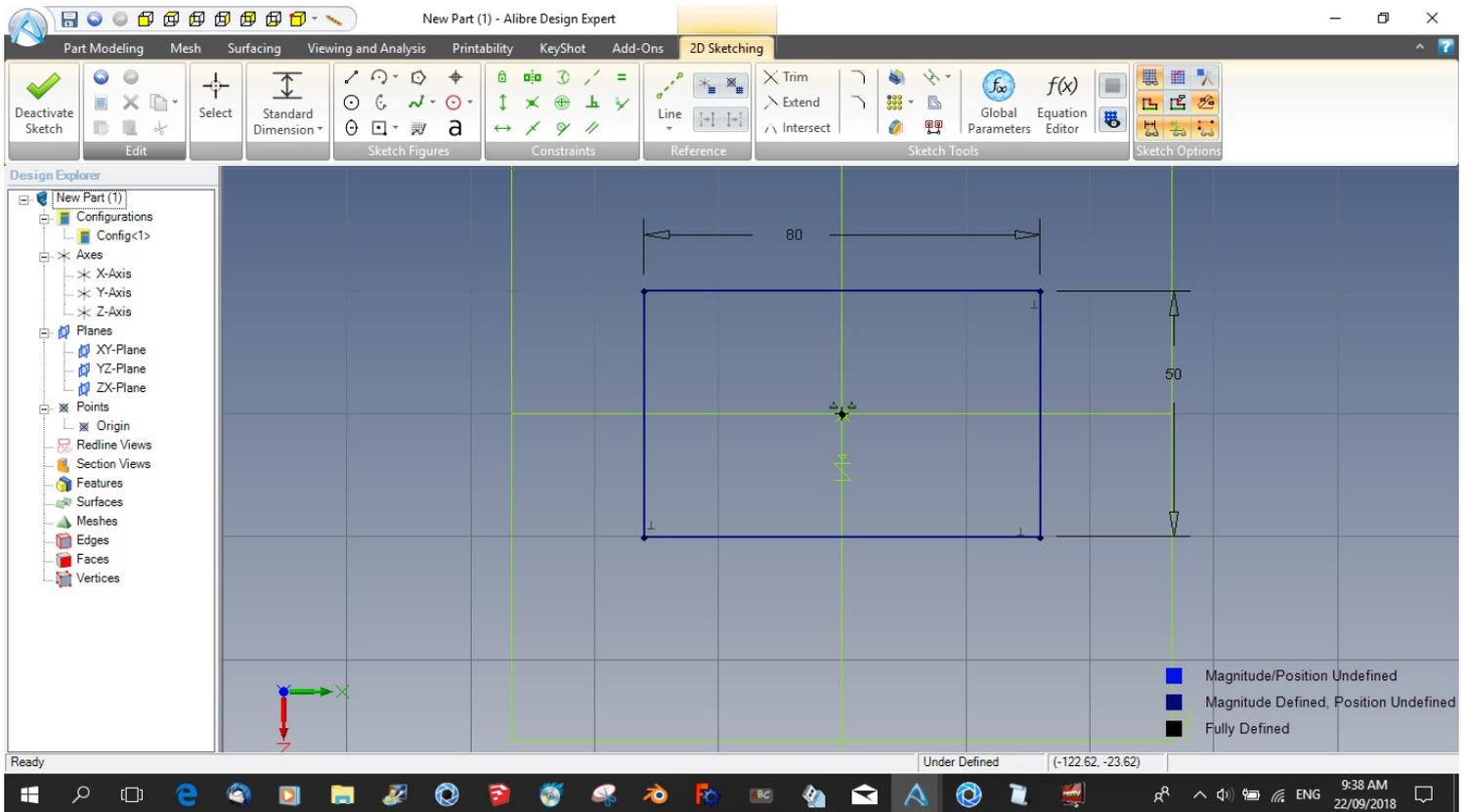
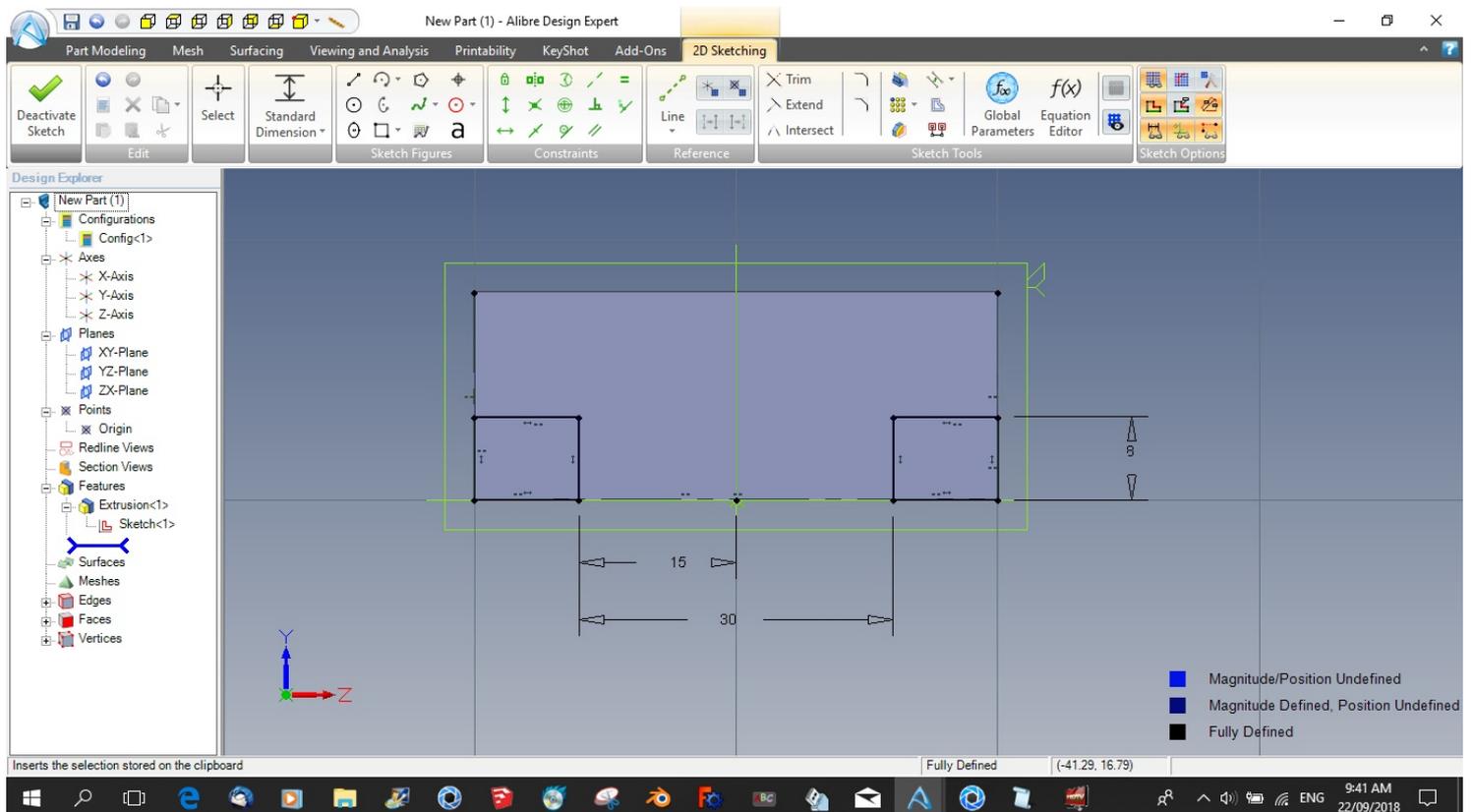


Can anyone help me how to draw this type of inclined extrude in autocad drawing attached

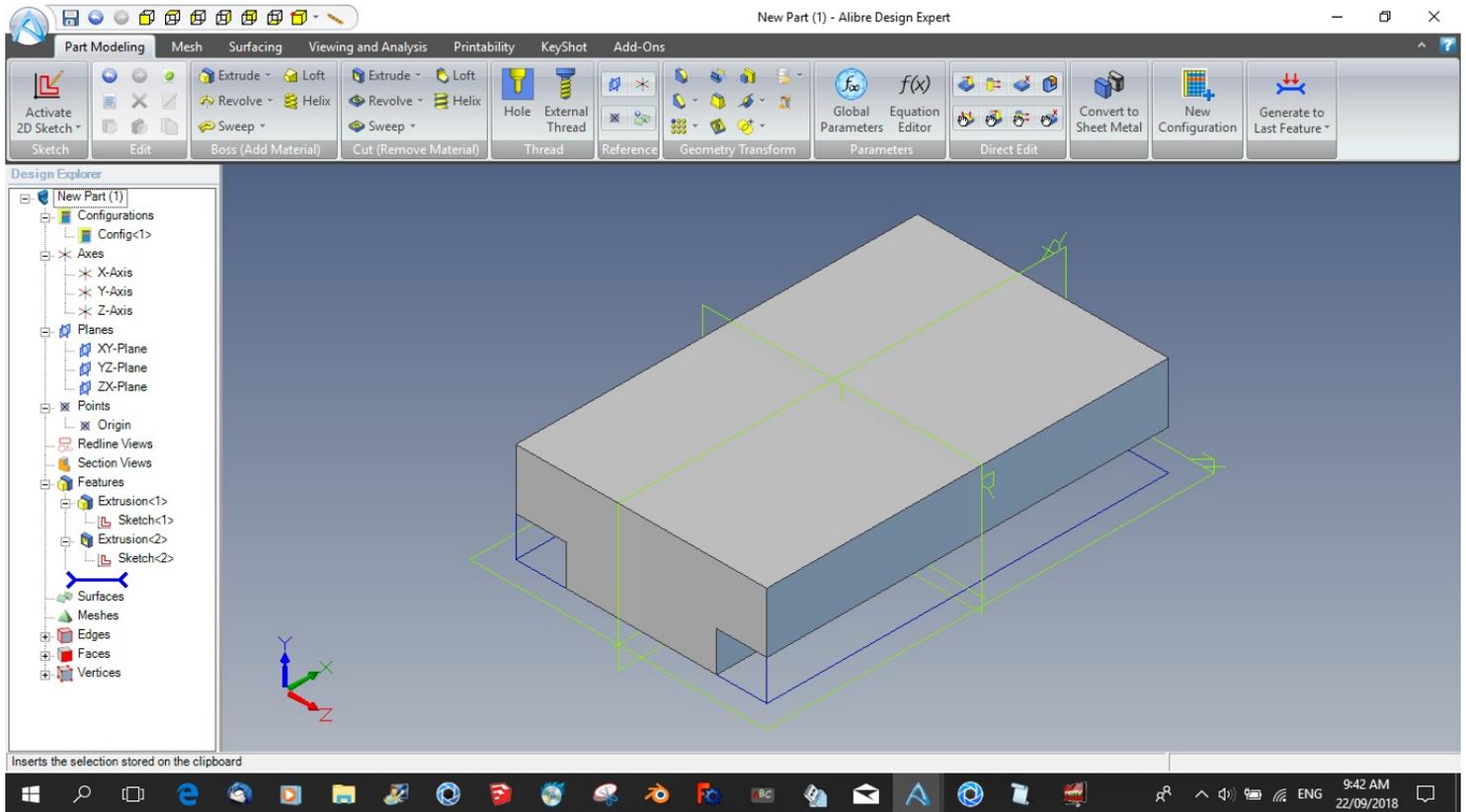
This is one way of modelling this part. I have used Alibre Design software for this, but producing this part using Solid Works or Inventor would be a similar process.



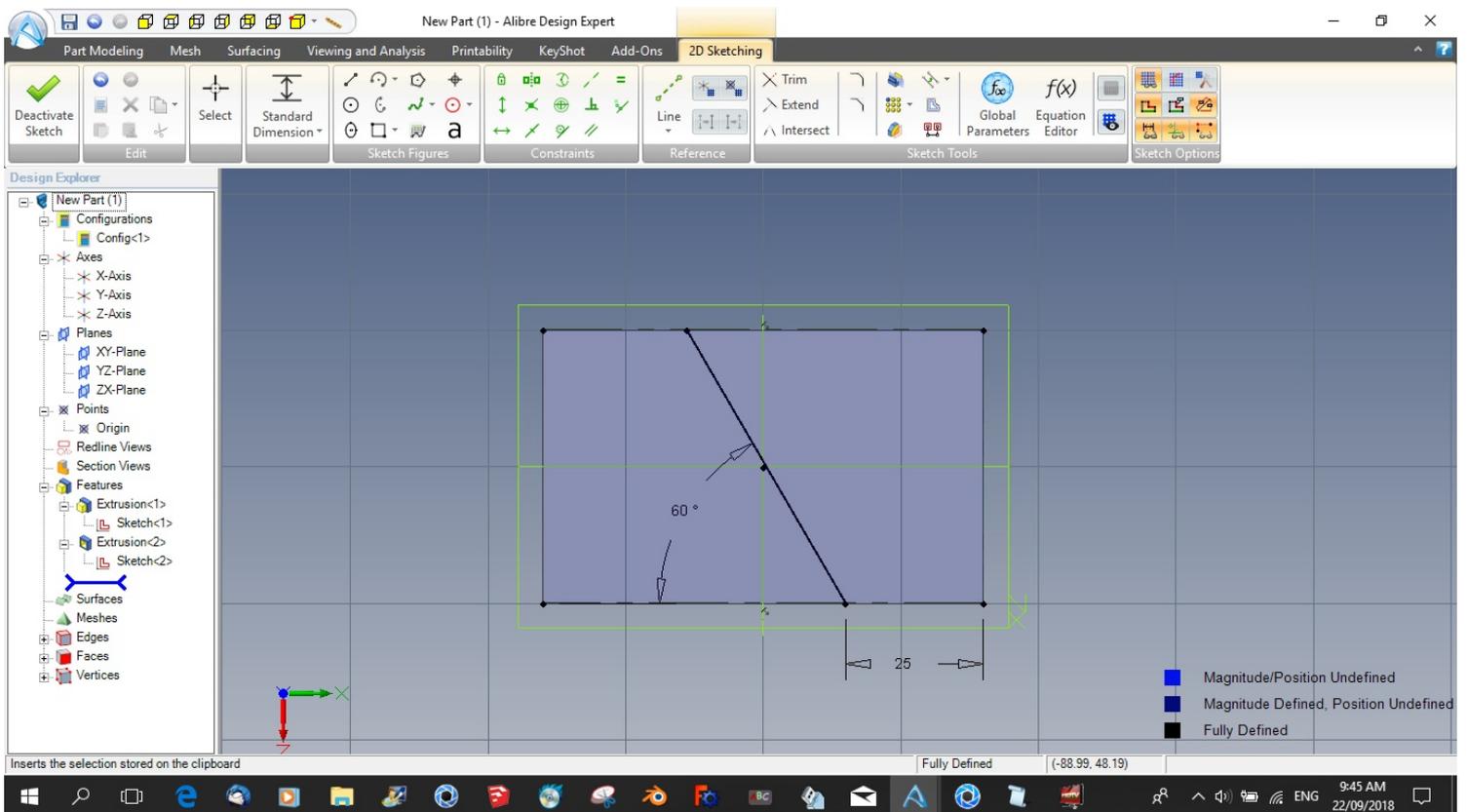
Sketch a rectangle on a plane. Make this to be symmetrical to origin, extrude this to be 20mm deep. Next we sketch the two rectangles on one end, these we will use an extruded cut to get the basic shape of the part.



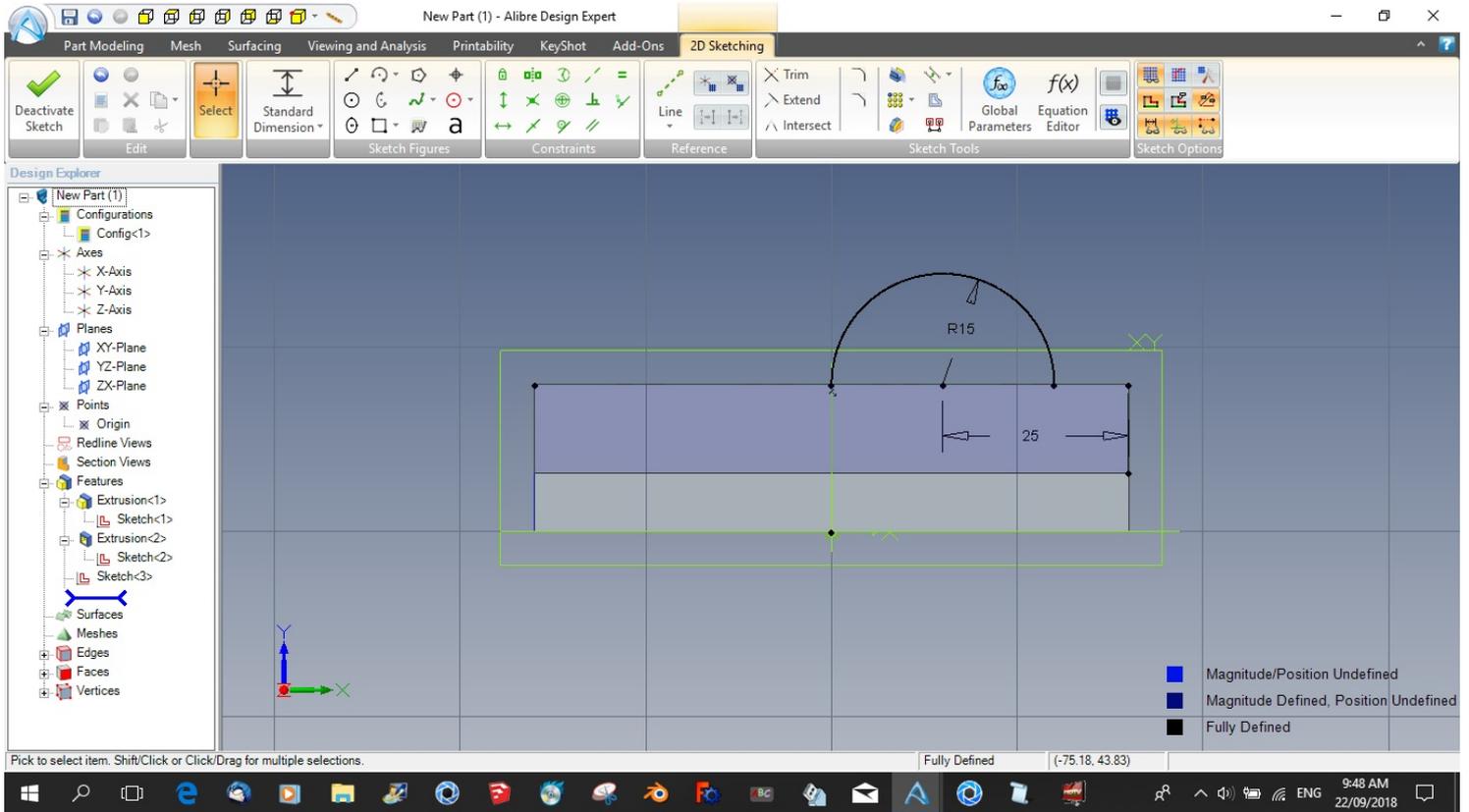
This should look as per the image below.



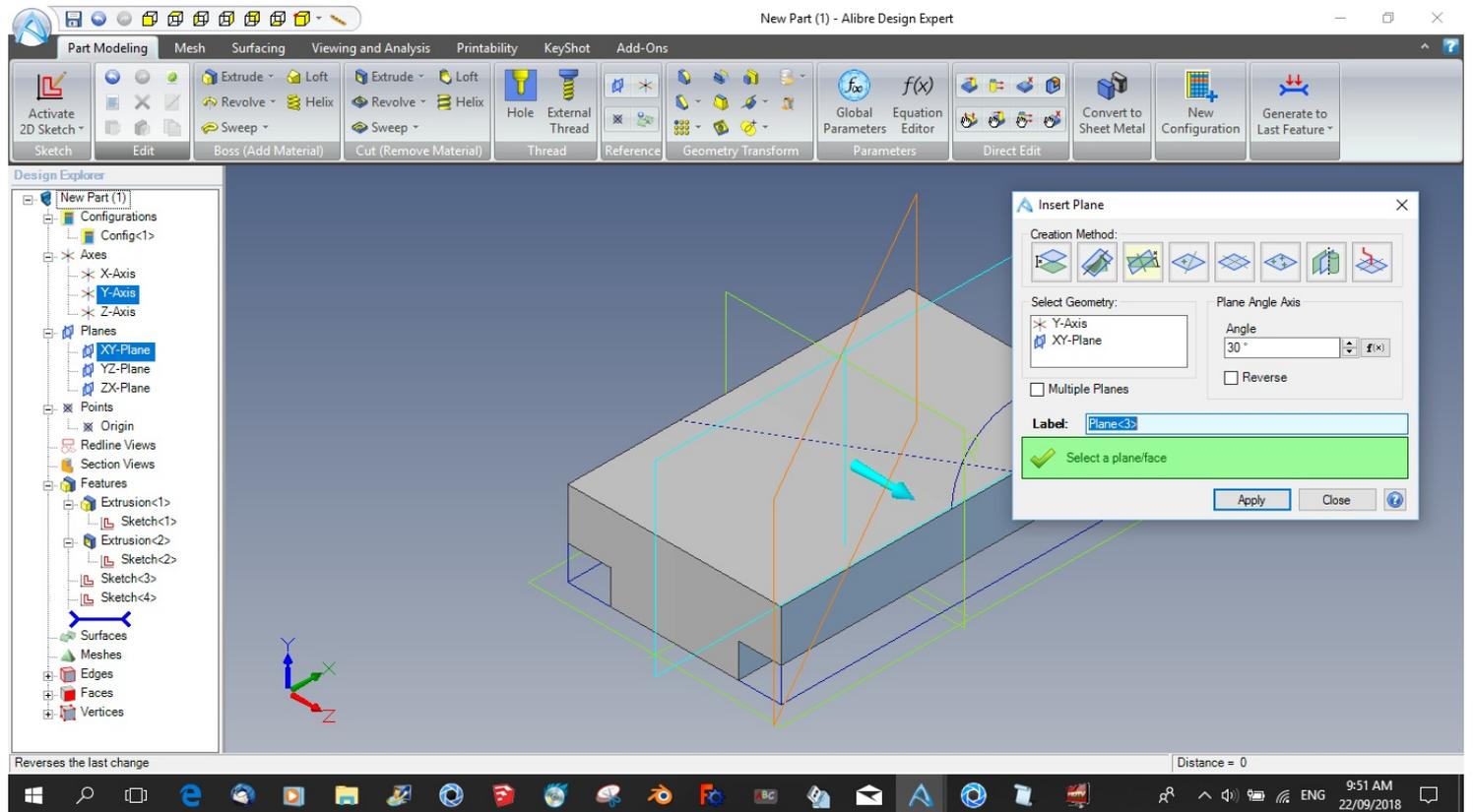
On the top face we sketch a line, constrained as per the dimensions below. This line is to be used as a path to sweep a profile that will form the boss on the top face of the part. This profile will be constructed in the next step.



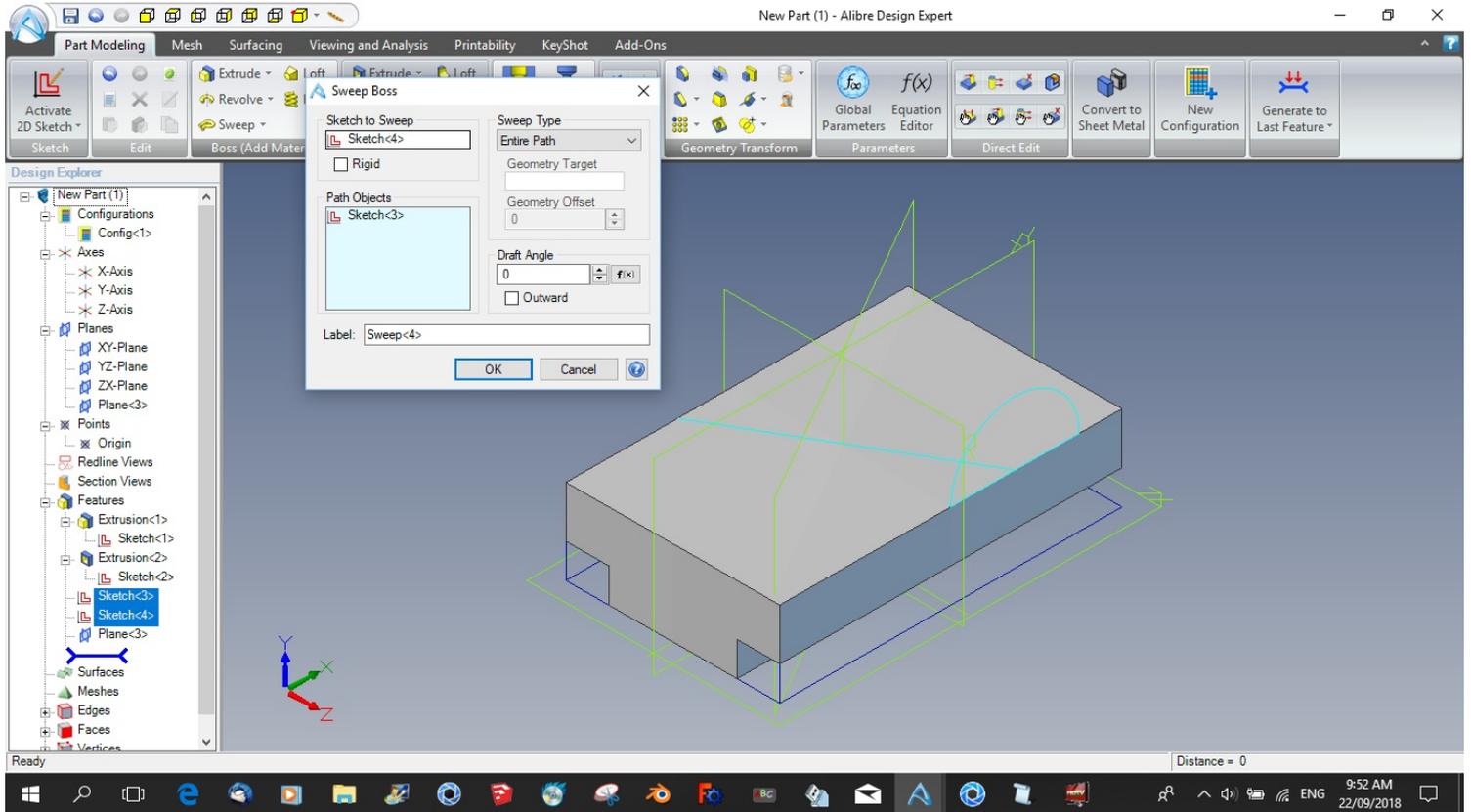
Below is the sketch for the inclined boss.



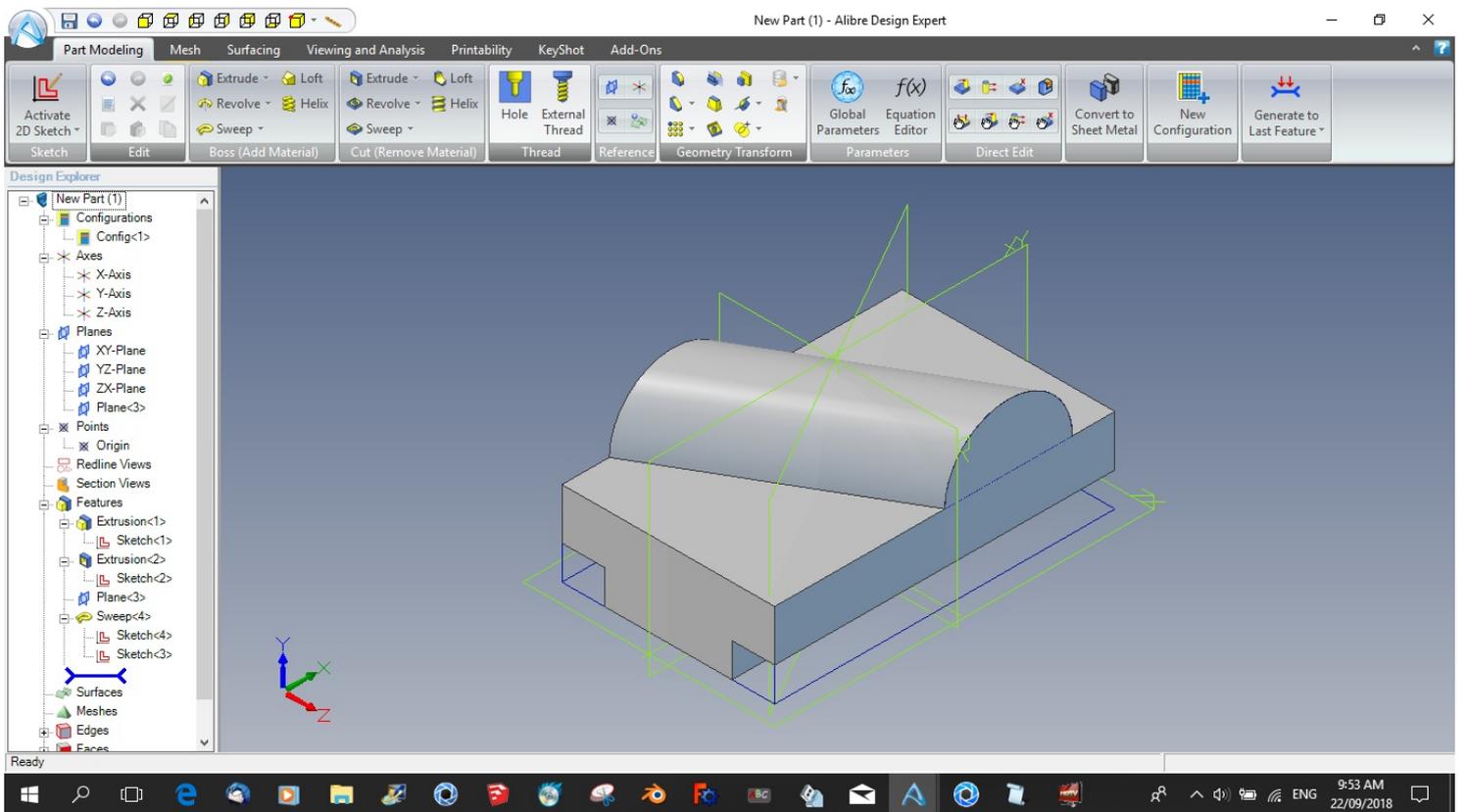
Before we construct this boss by sweeping this profile along the path constructed in the previous step, we will add a plane at an angle. We will use this plane later for the 12mm dia. hole. As we want this hole to have an axis parallel to the angled boss, we make it perpendicular to the axis of the boss and as the boss, in this case, passes through the Y axis of the part, we have this plane located on the Y axis.



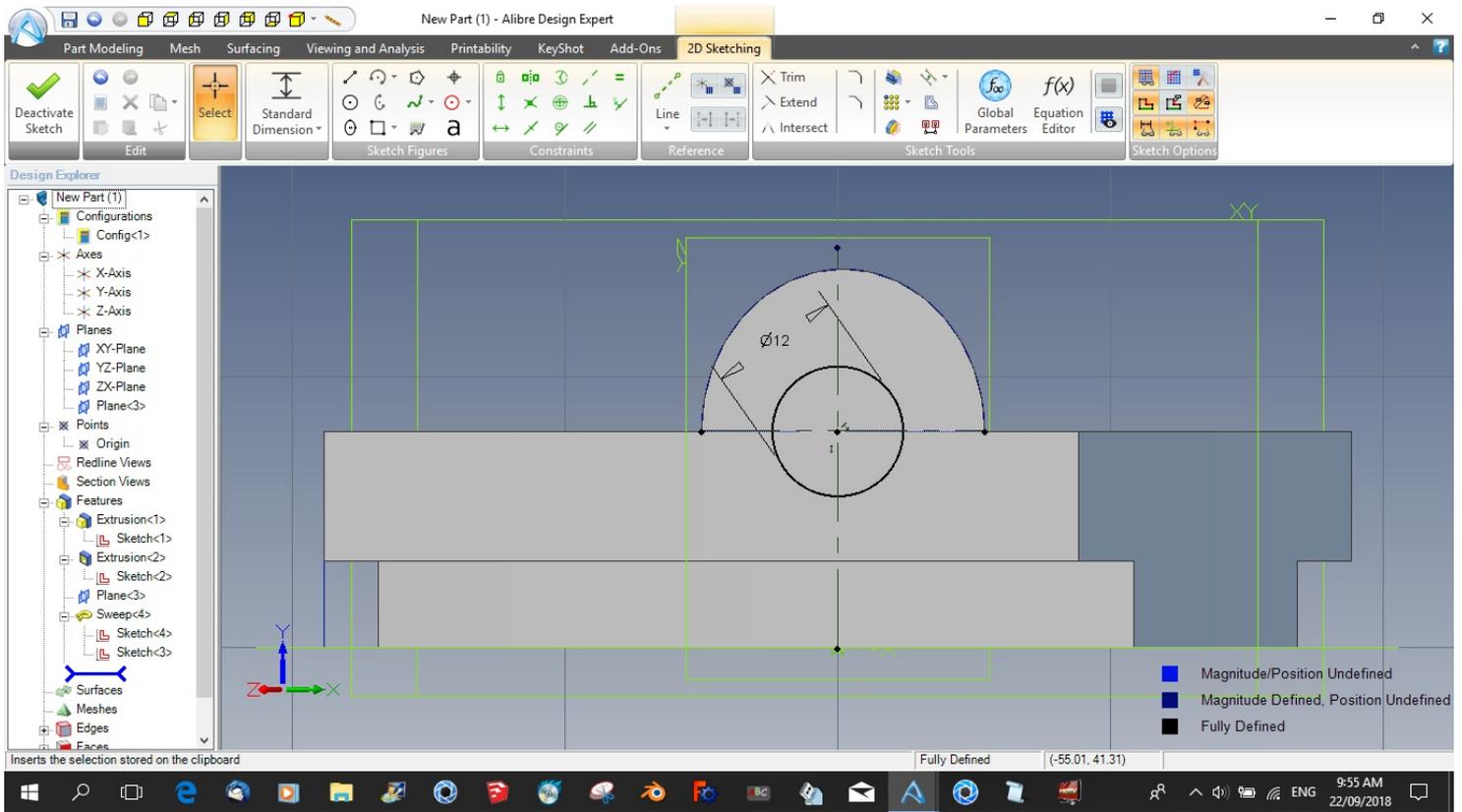
We now construct this boss by sweeping its profile along the path we constructed.



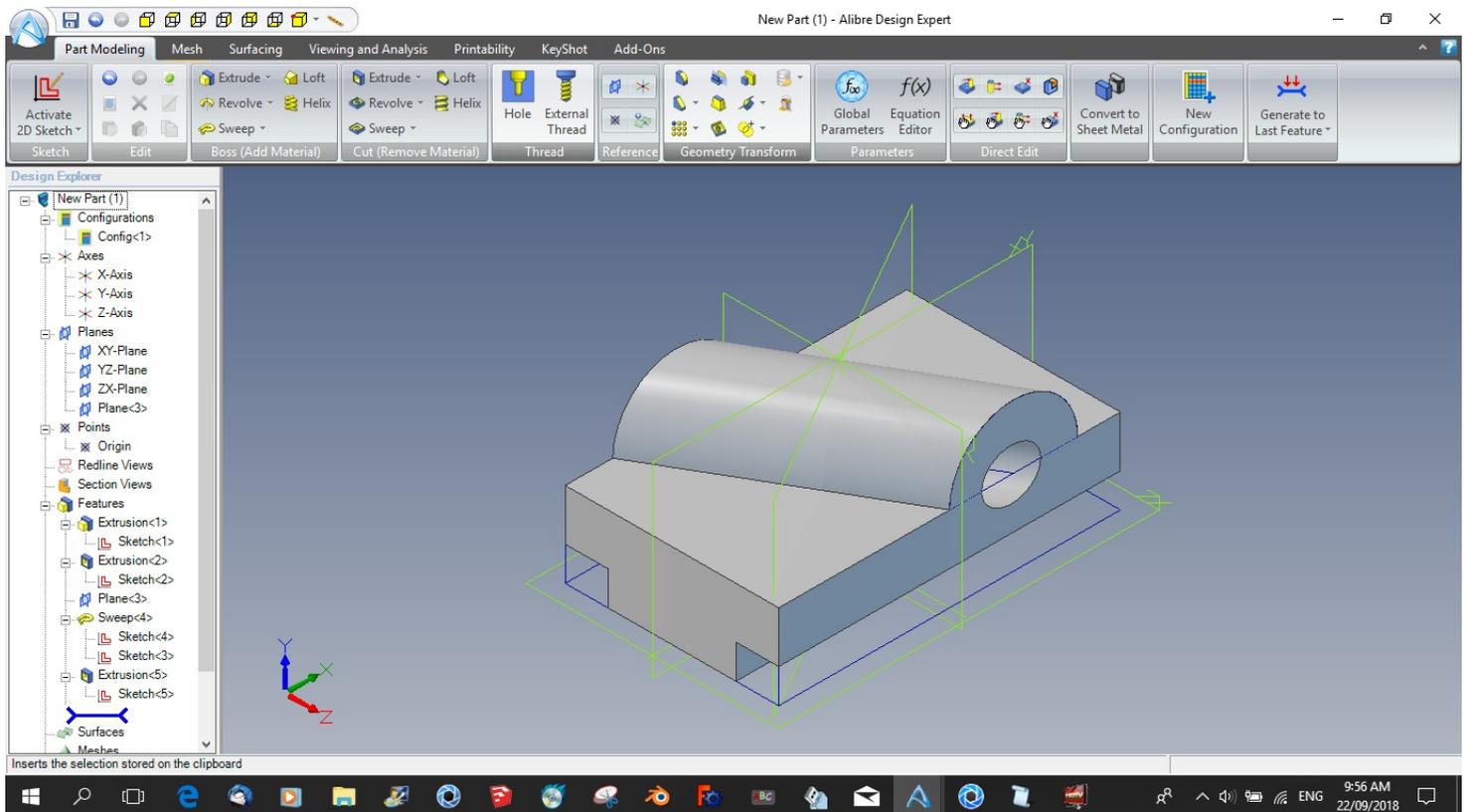
The part after this step, should look as per the image below. All that remains to be done is to add the holes and the fillets. For the hole that follows the inclined boss, we will make use of the plane we constructed in the previous step. This is because we want this hole to be circular.



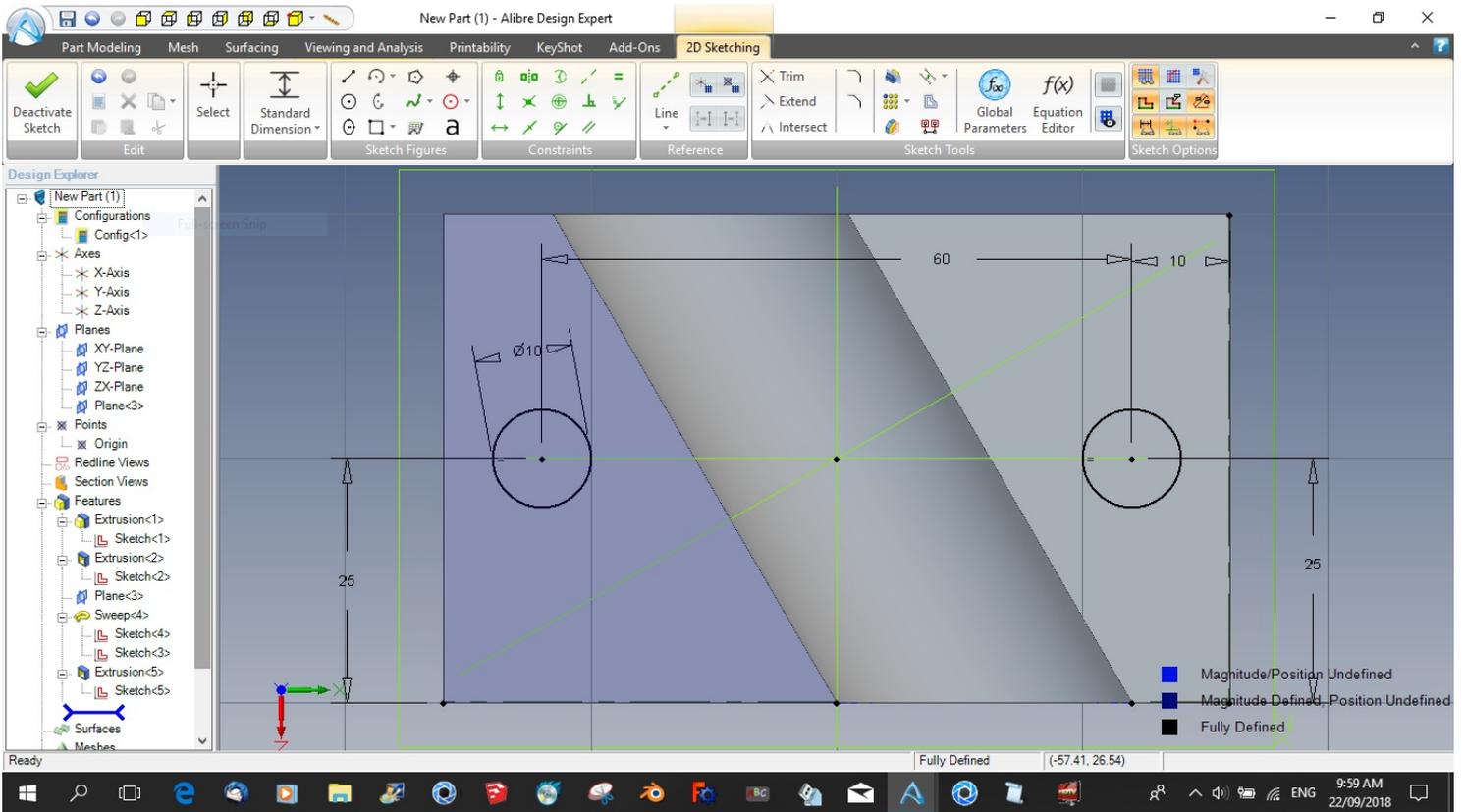
We now create a sketch on this plane. We have used the Y axis and a construction line that aligns with the top edge to locate the centre of the sketched circle.



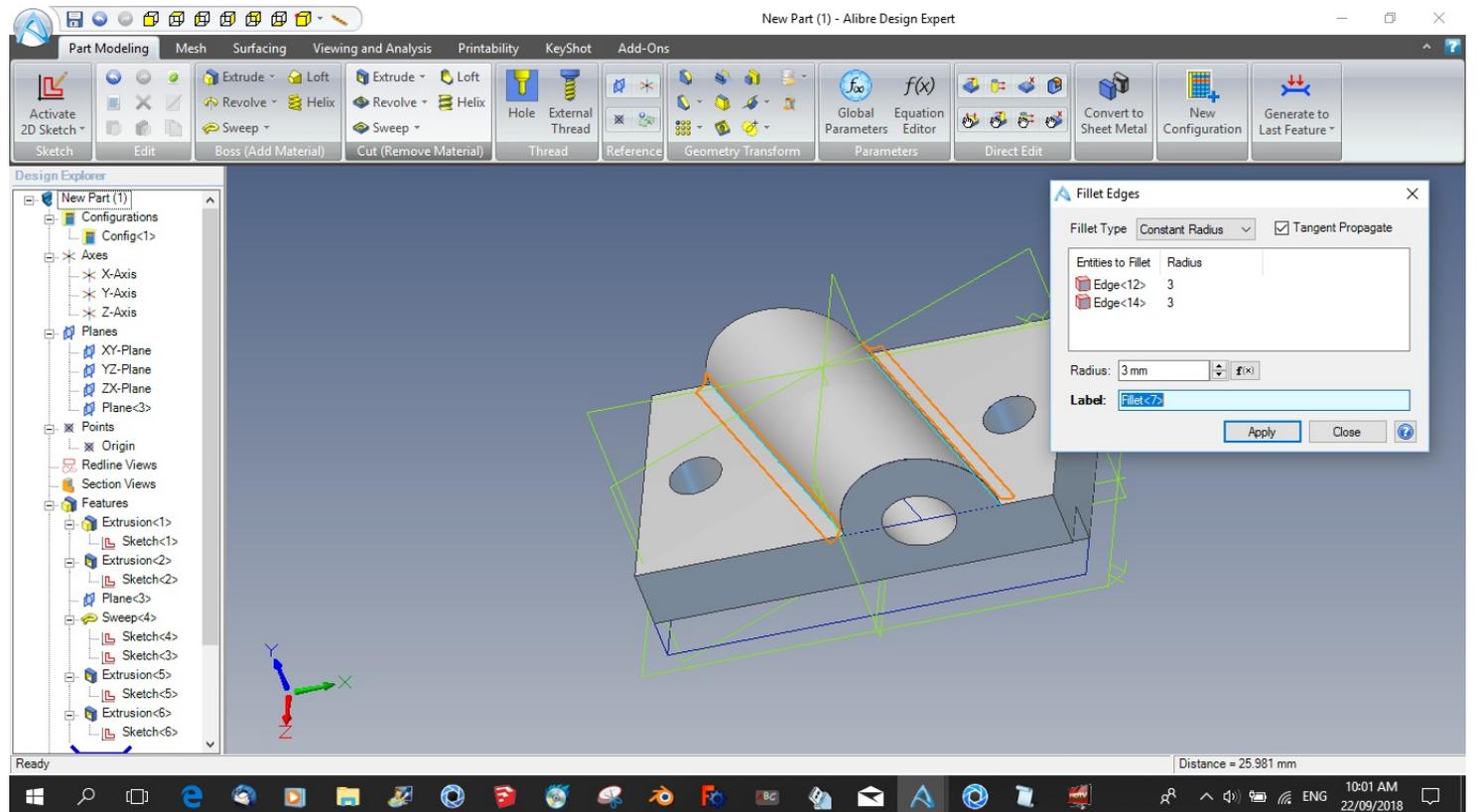
This sketch is used to make the extruded cut that forms the hole through the part. We now have only a few steps to make to complete the part. The image below shows the part at this stage.



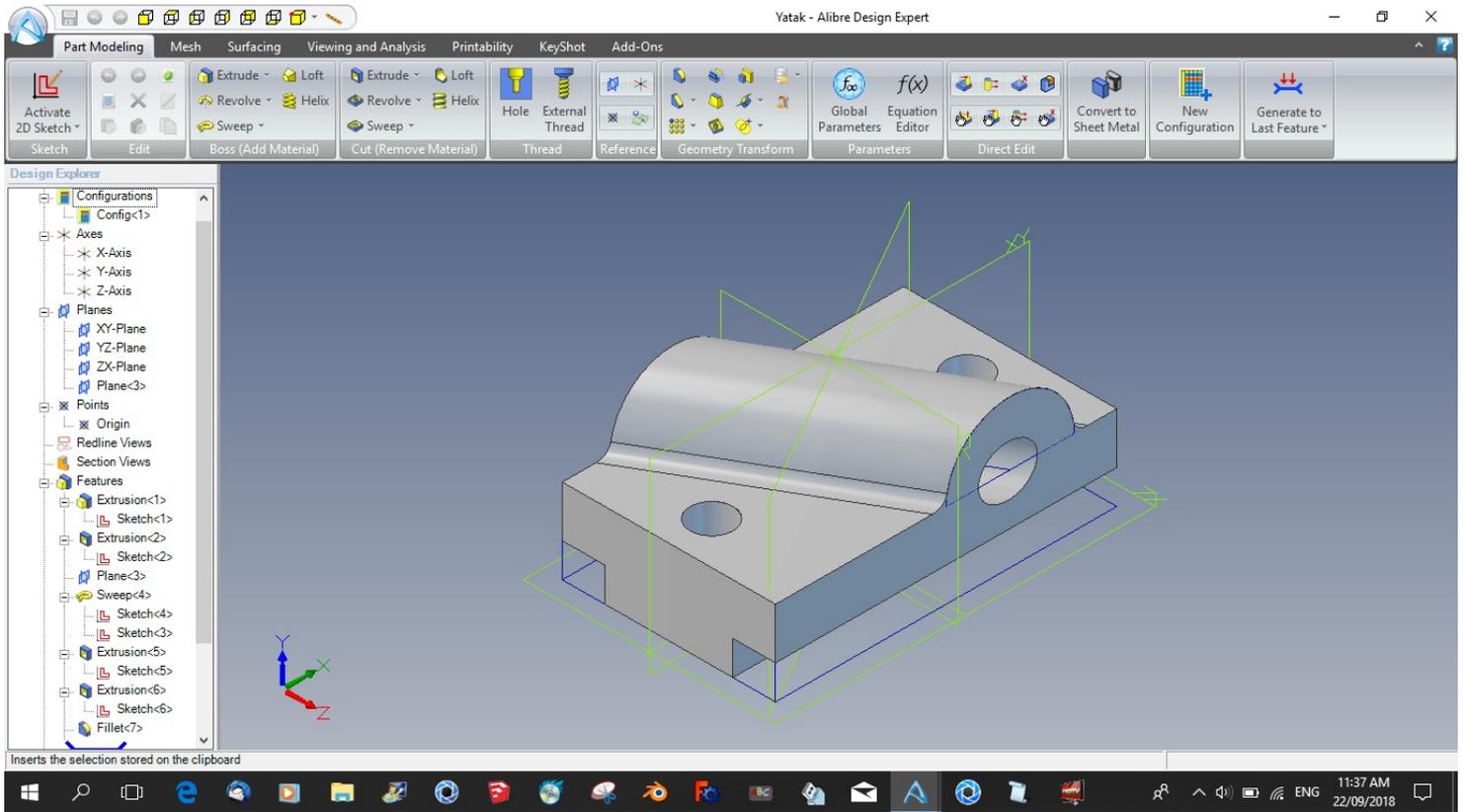
On the top face a sketch is made to locate the two 10mm dia. holes. These holes will be produced with an extruded cut.



Add the 3mm fillets to finish the part.



The completed part should look like the image below.



To produce a part such as this, should take about minutes. This is just one way to produce this part. A good way to build up your 3D modelling skills is to see how many different ways you can make this part using the tools available to you in the software you are using.