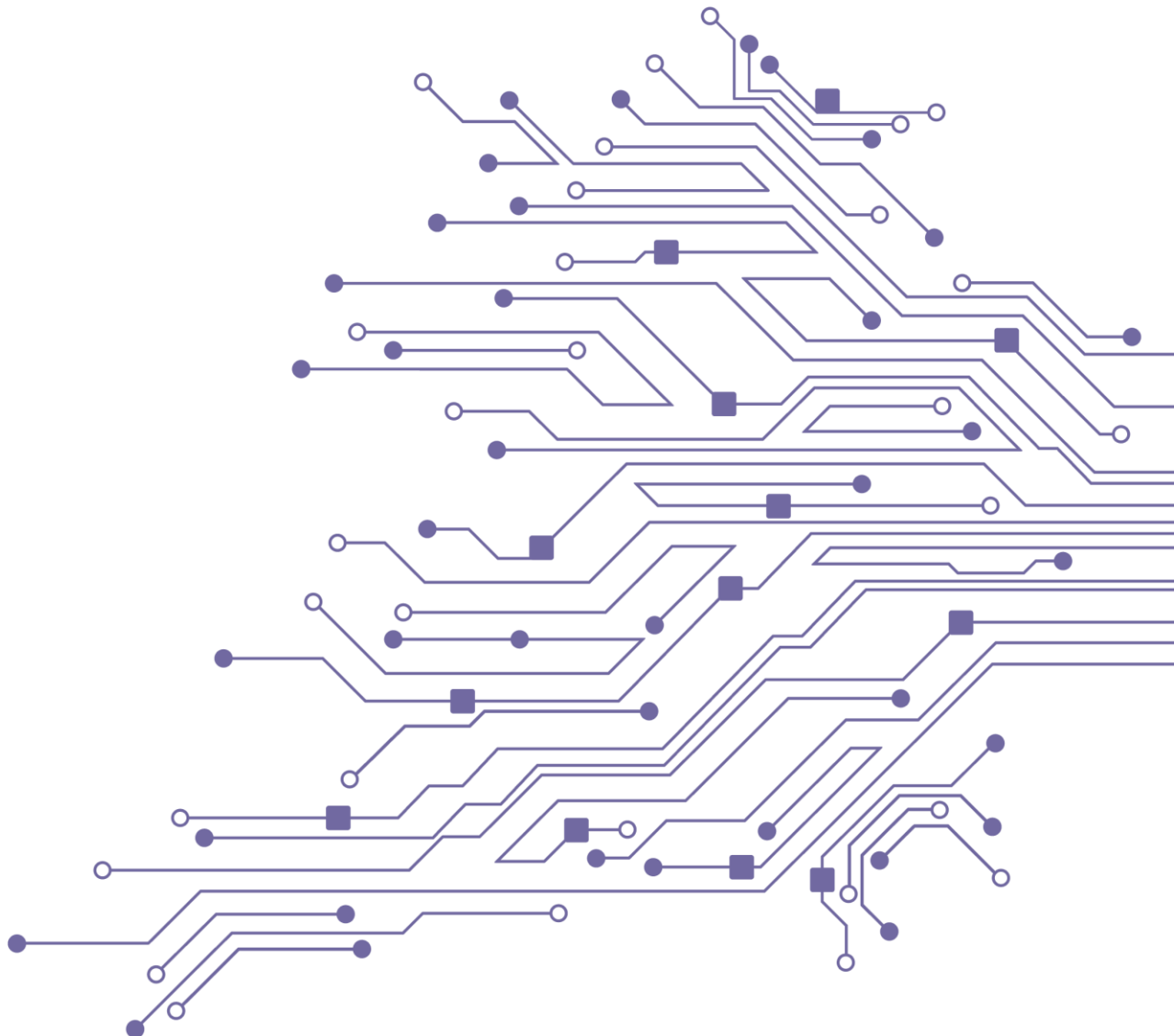




CAD and 3D Printing Workshop

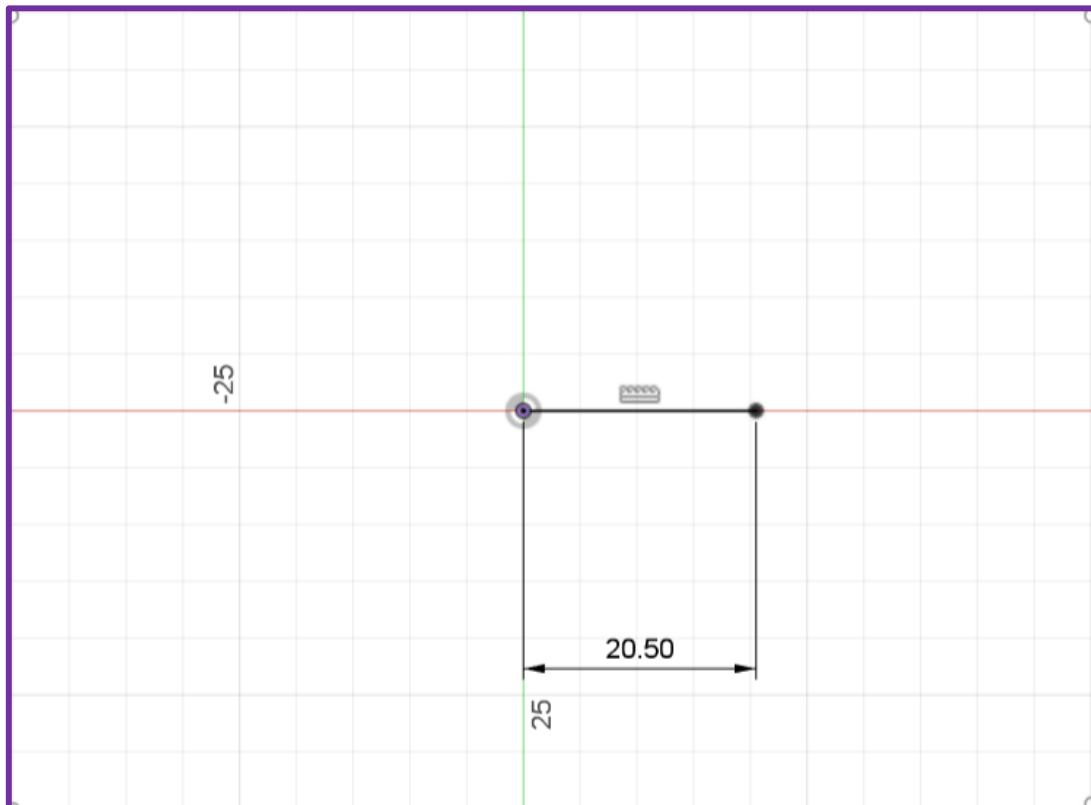
2024



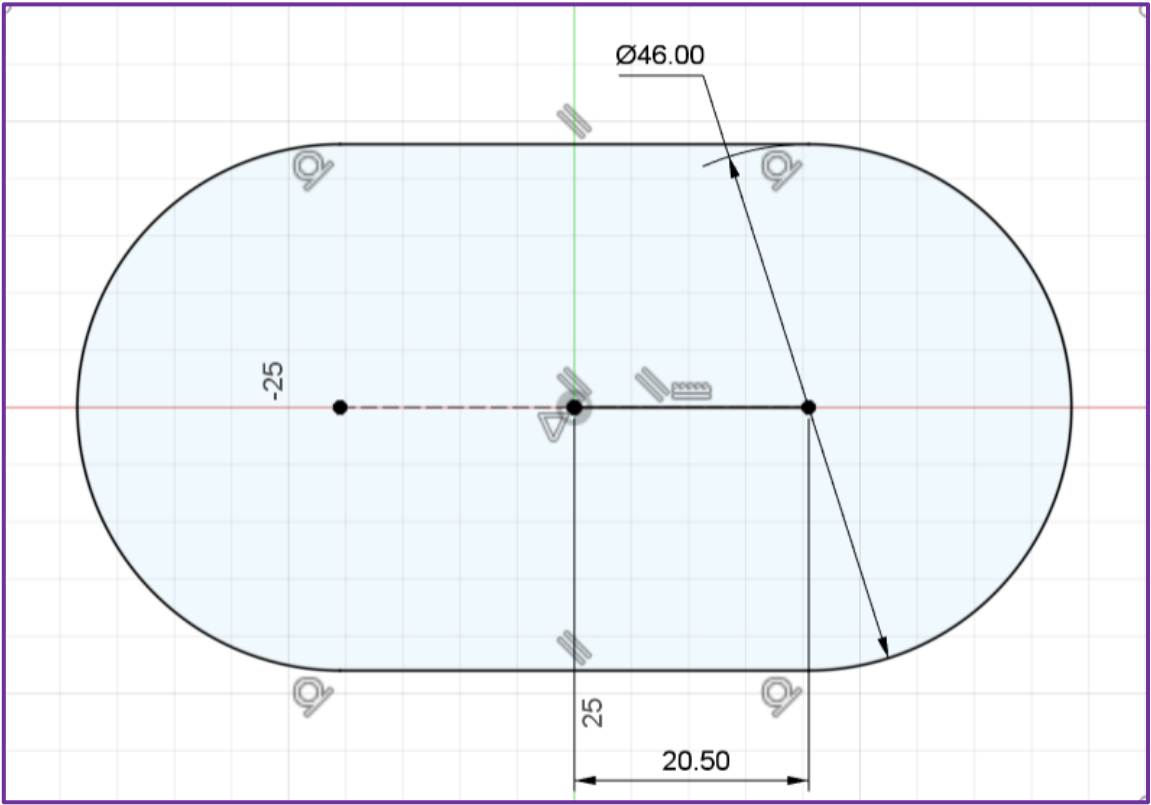
Part 1: Base



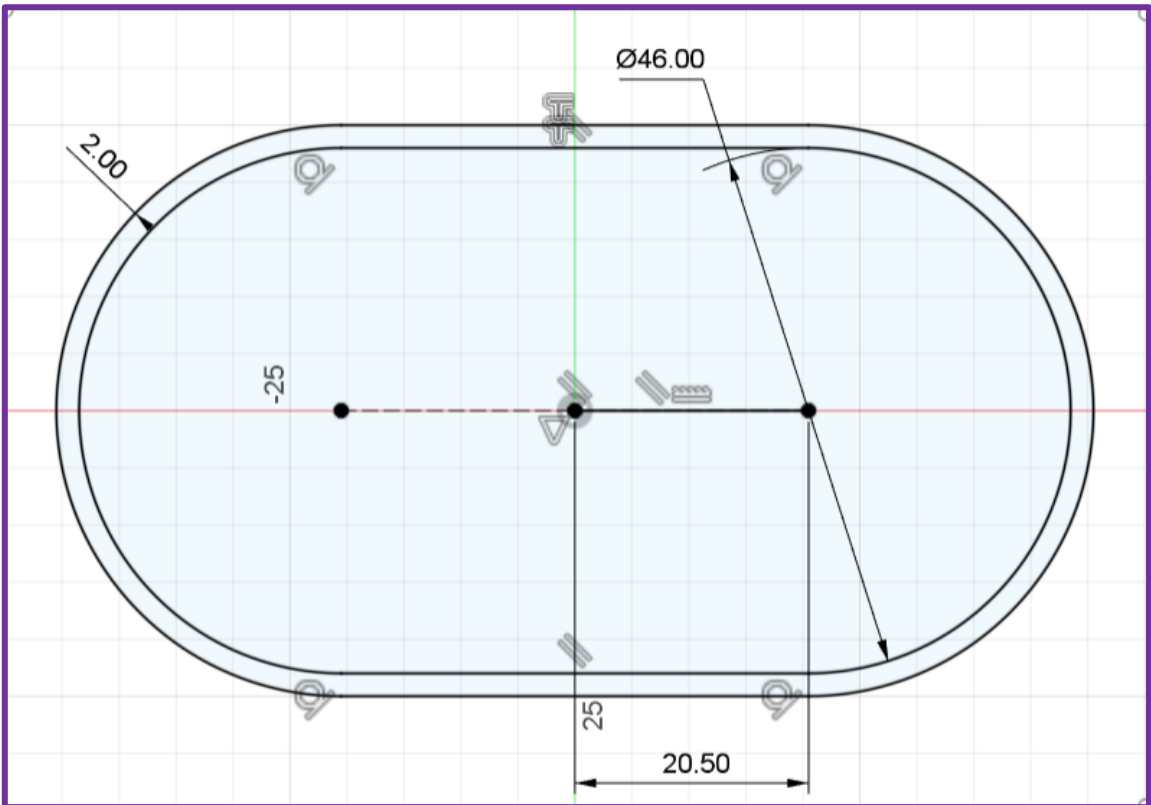
Step 1:



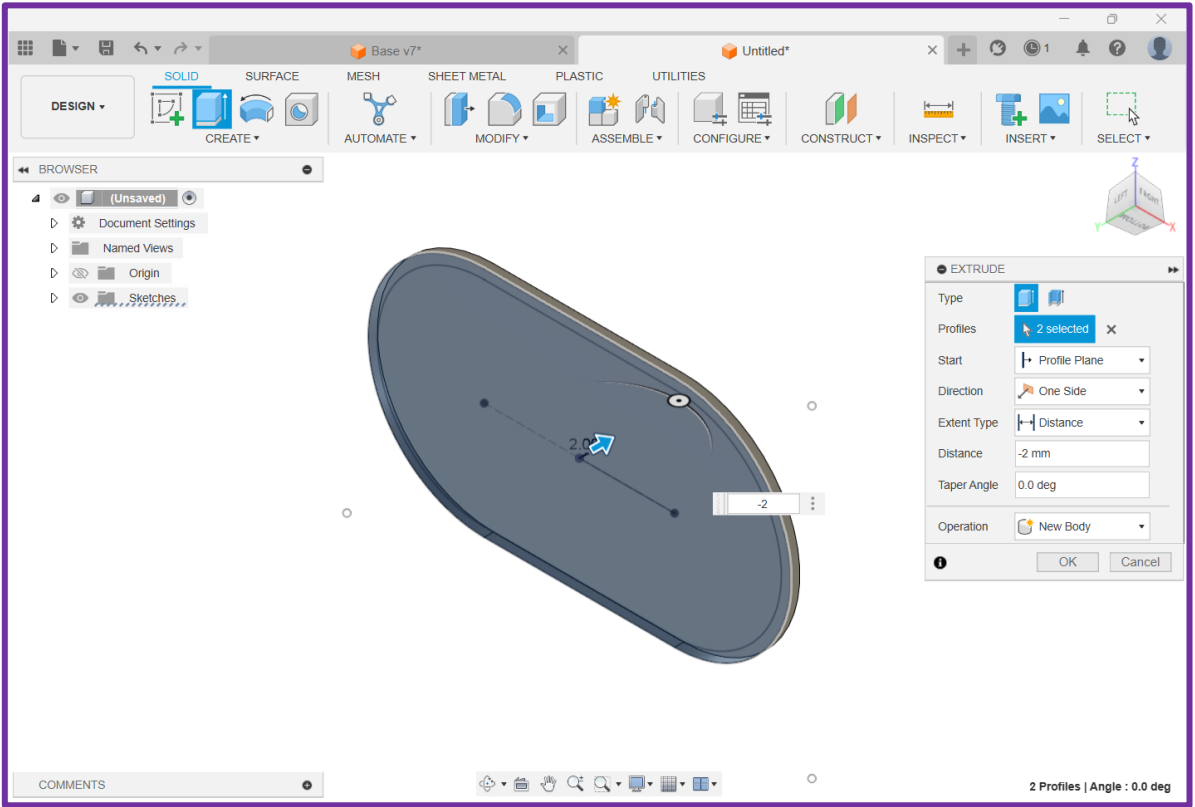
Step 2:



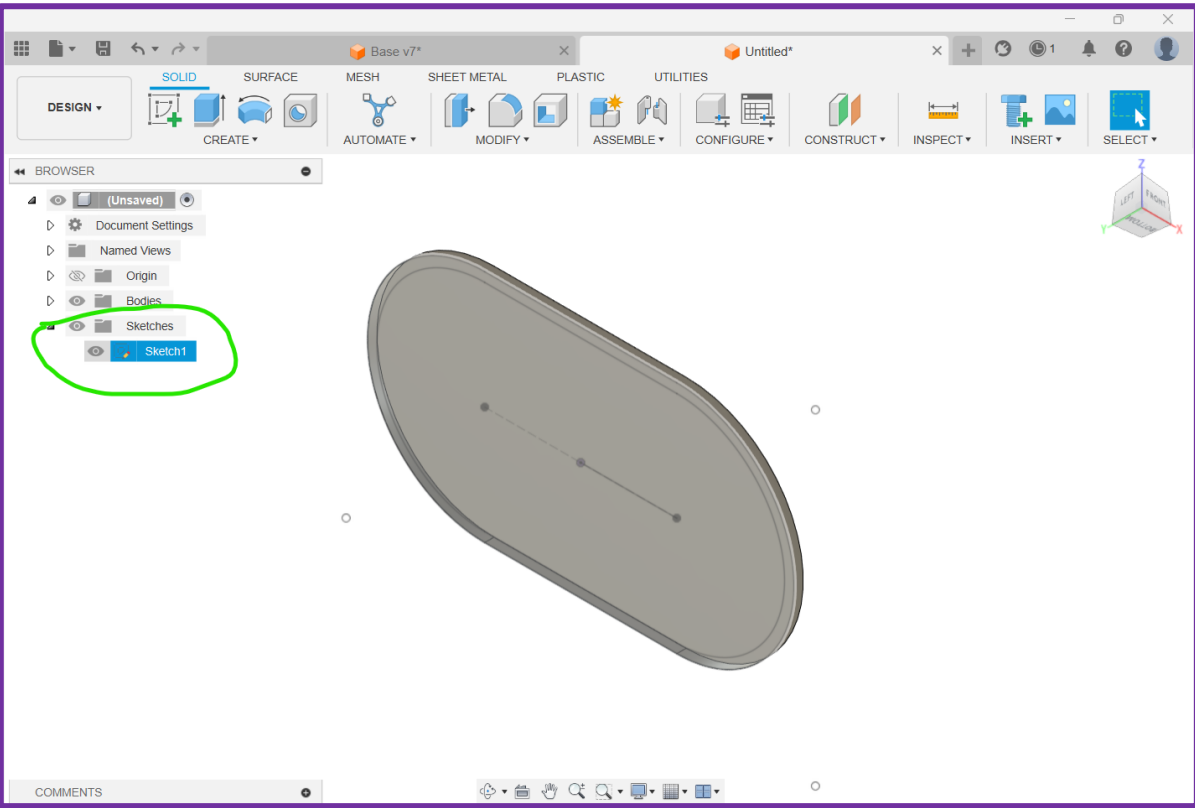
Step 3:



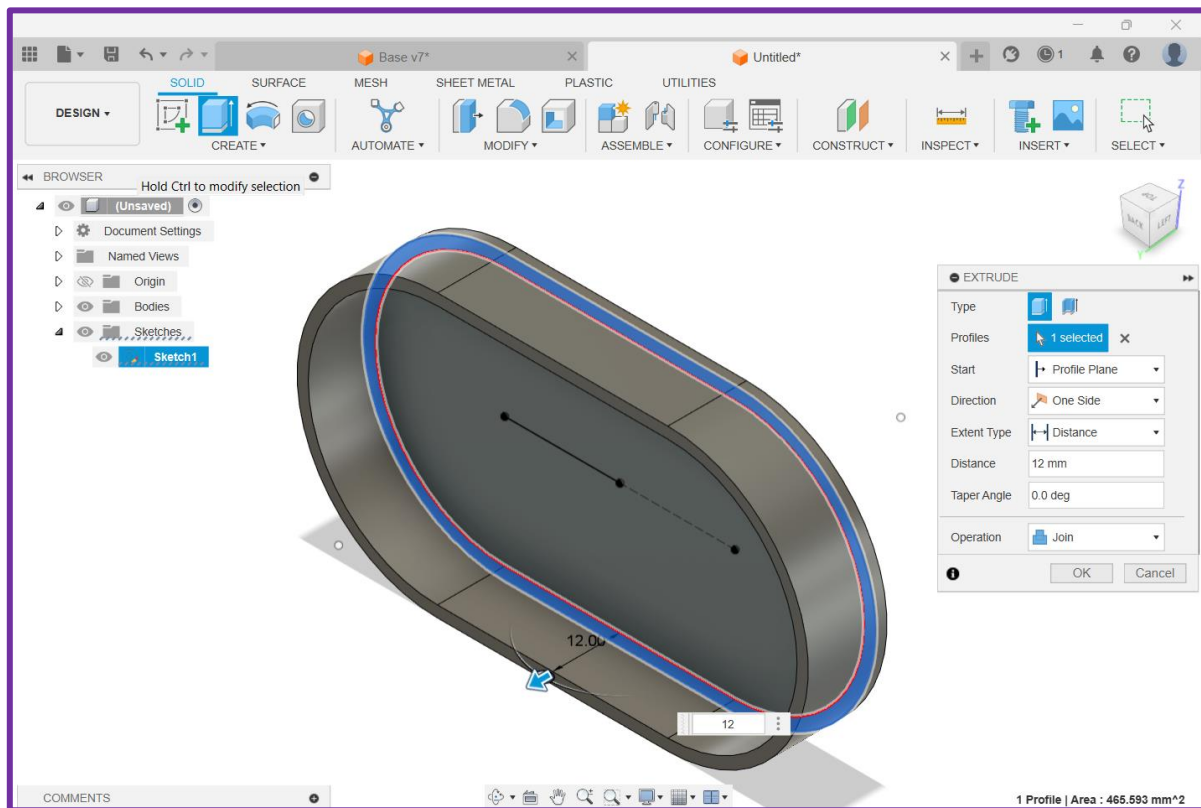
Step 4:



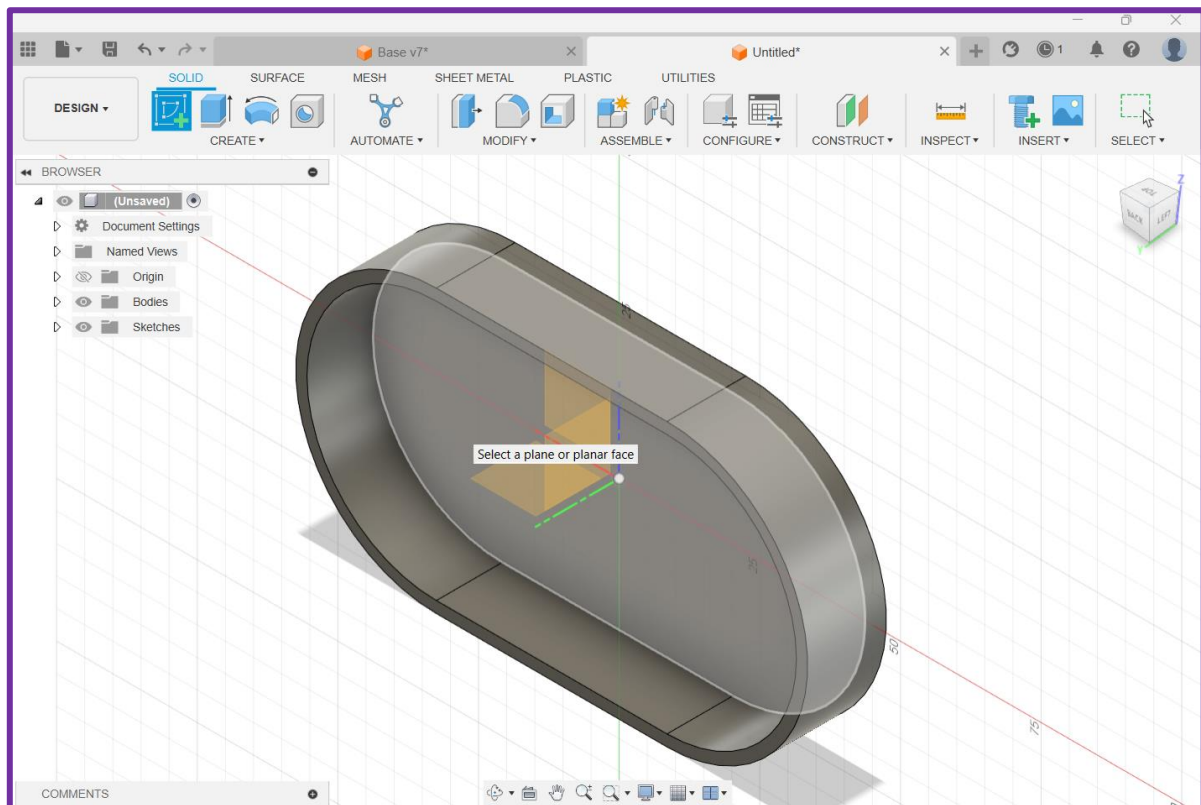
Step 5:



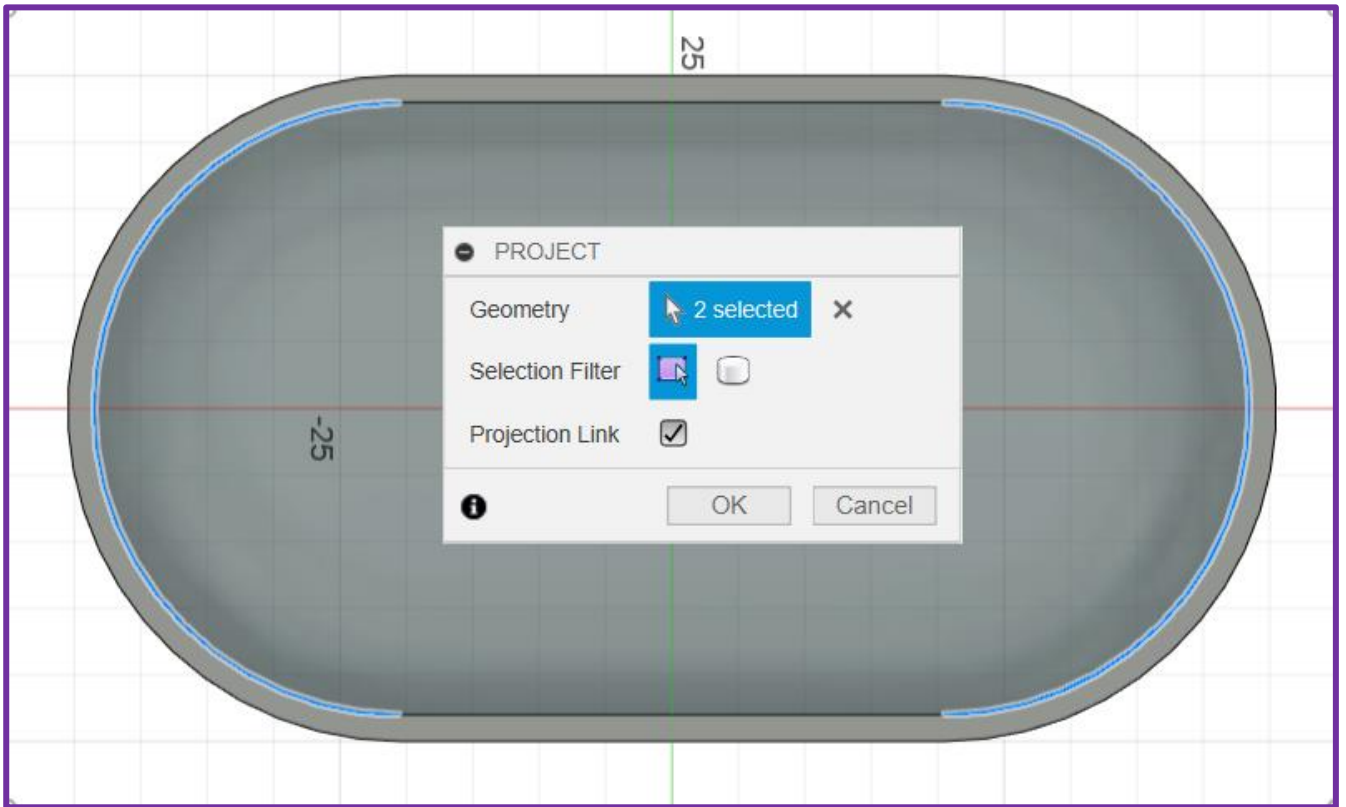
Step 6:



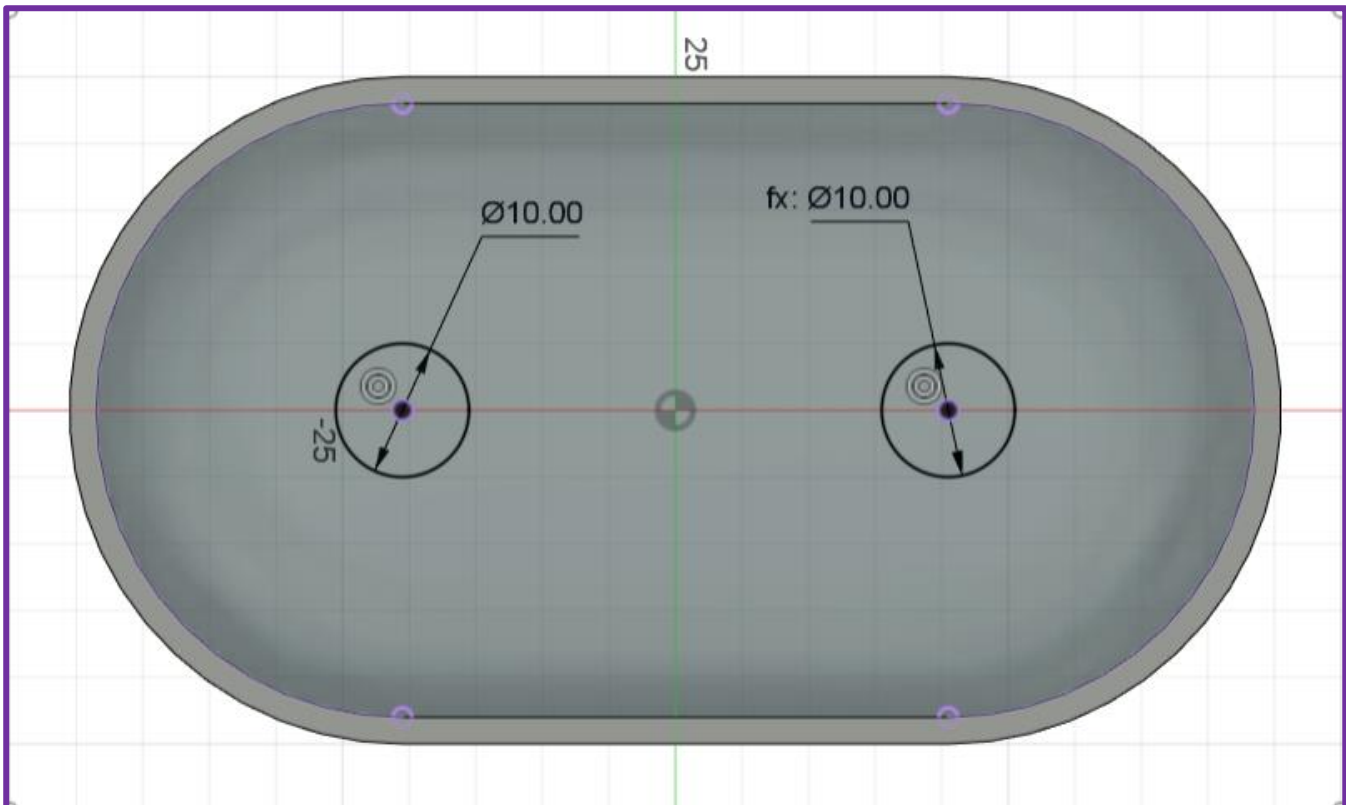
Step 7:



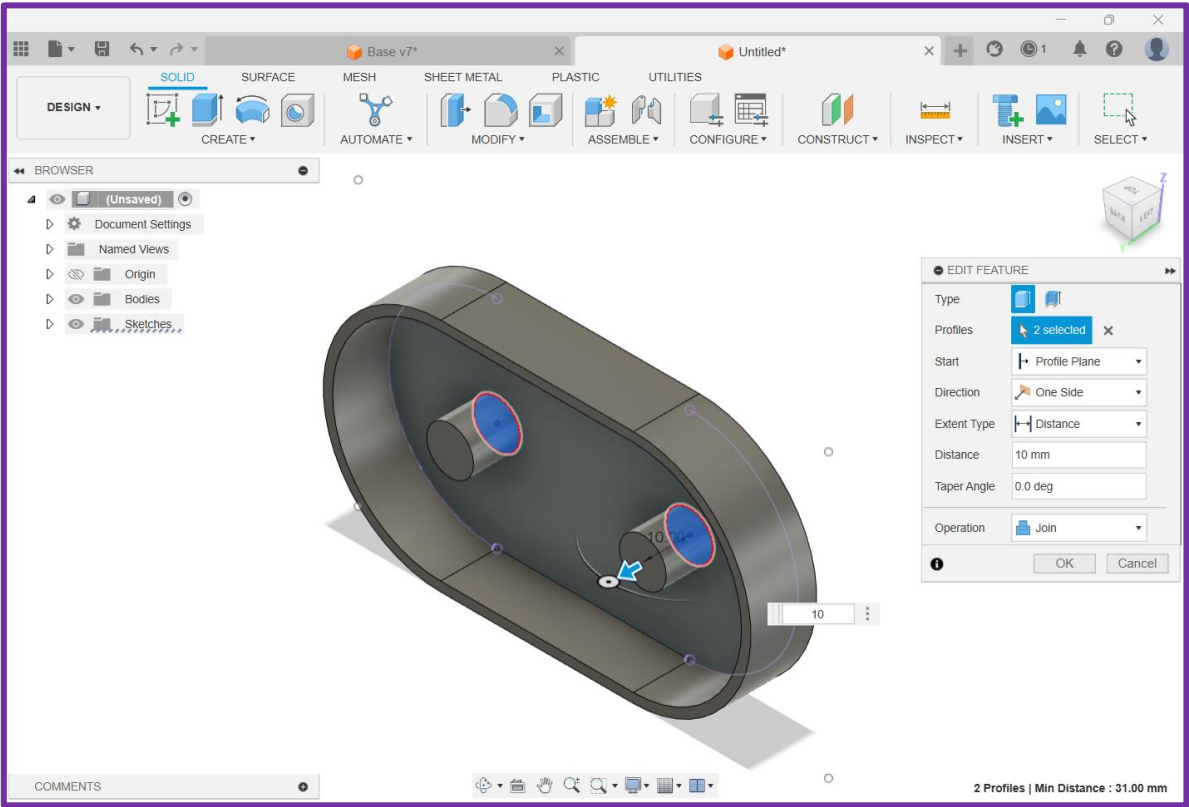
Step 8:



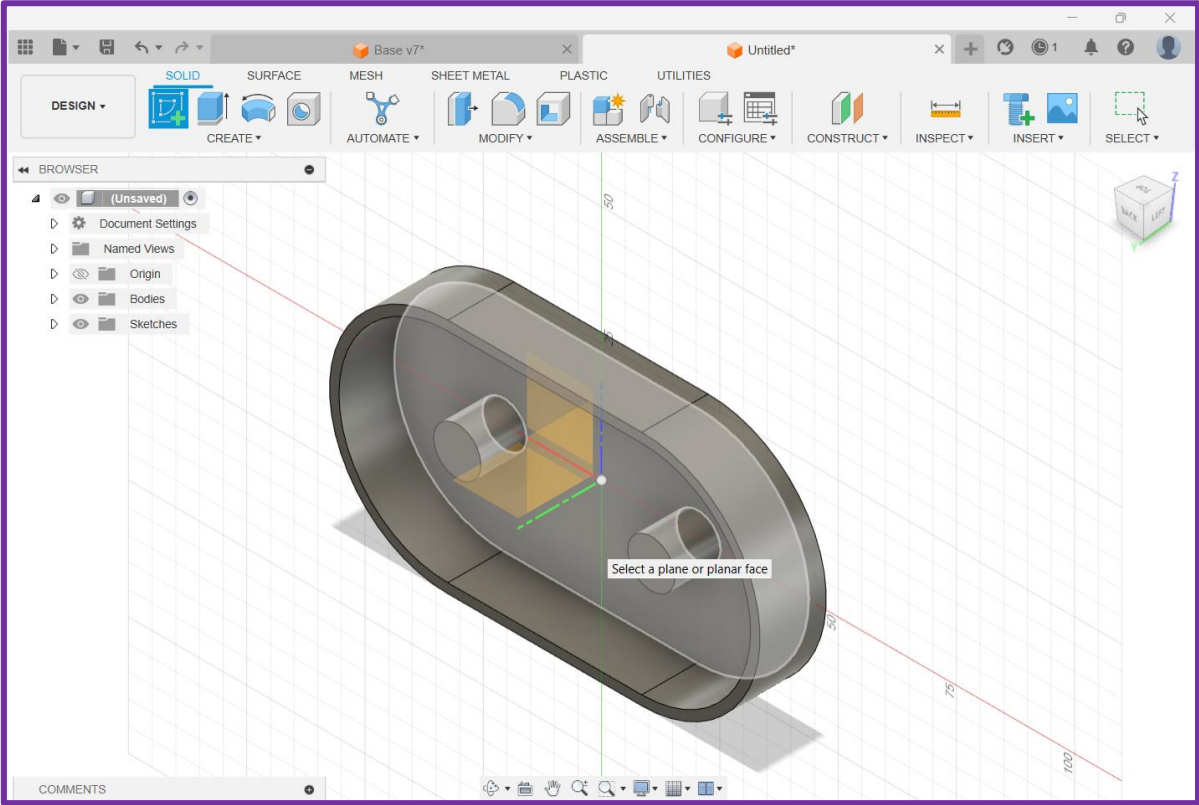
Step 9:



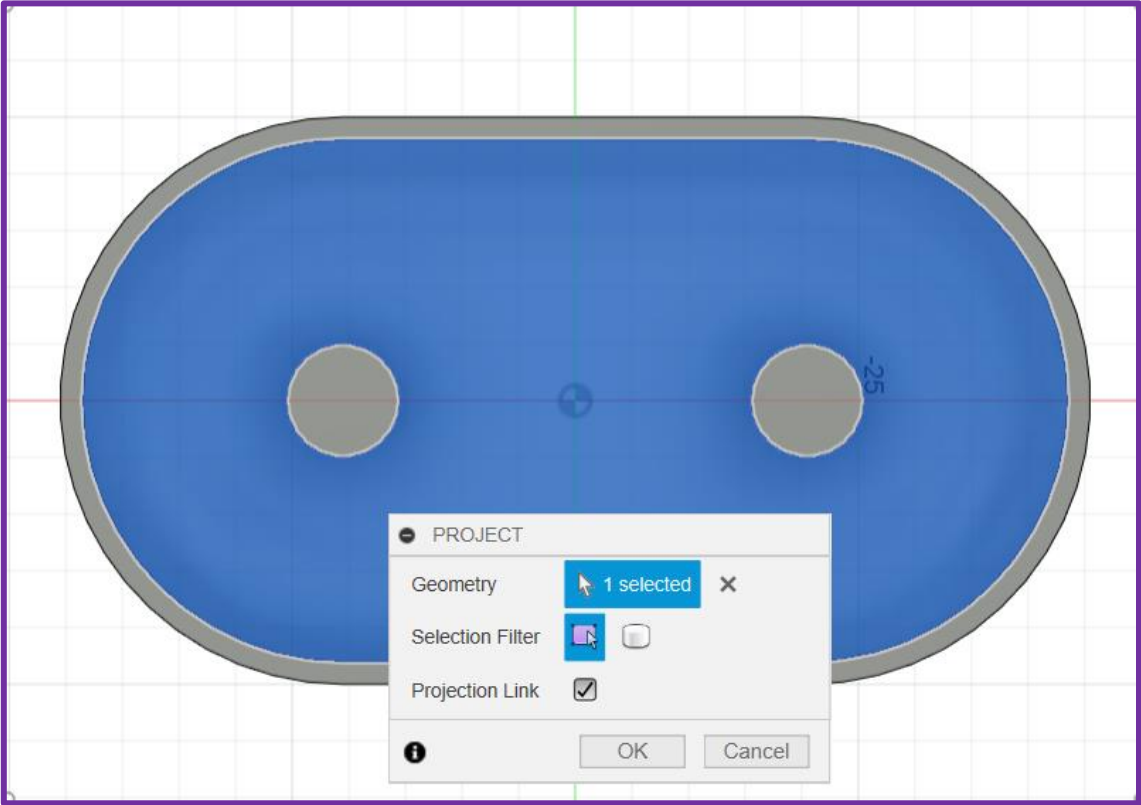
Step 10:



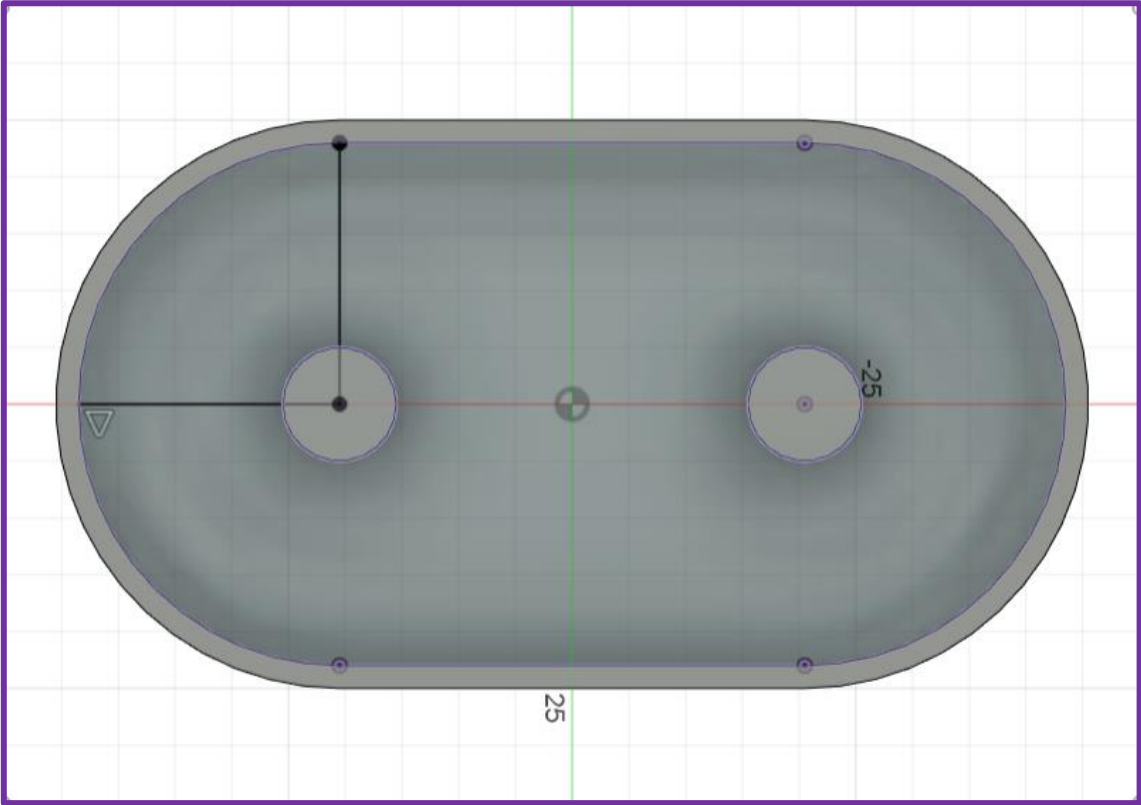
Step 11:



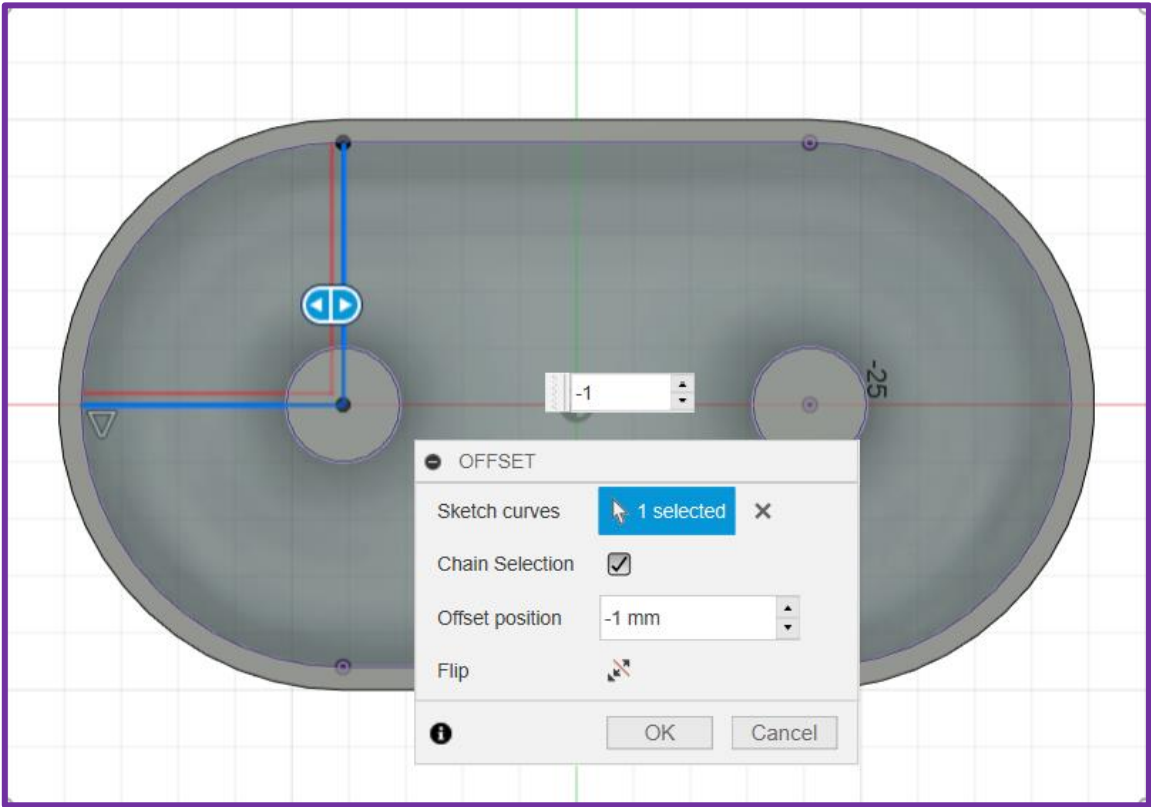
Step 12:



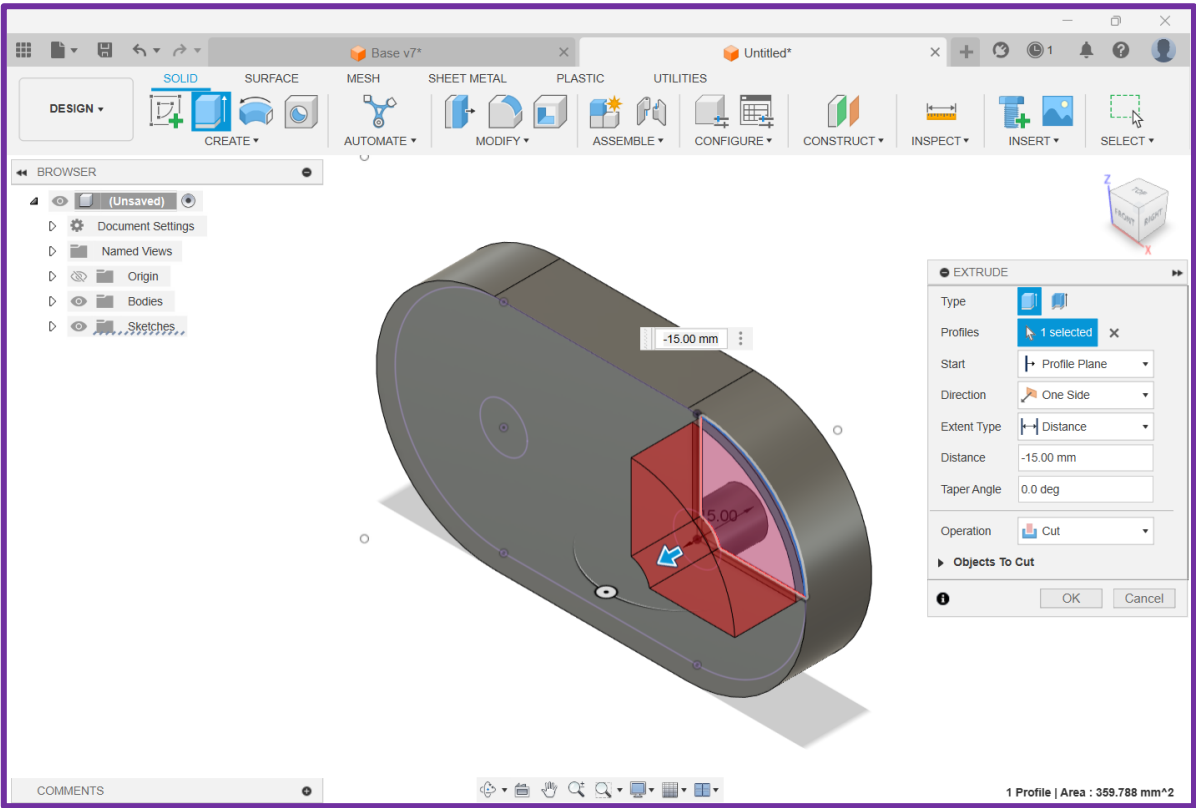
Step 13:



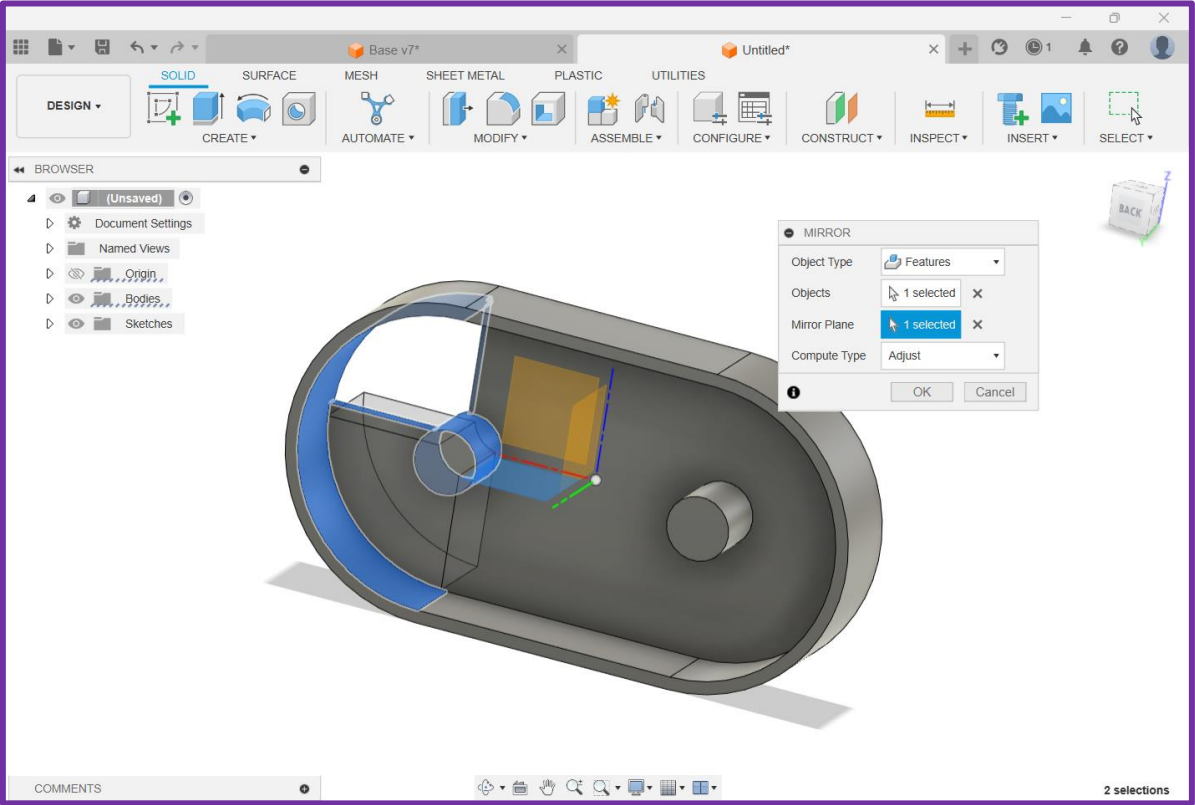
Step 14:



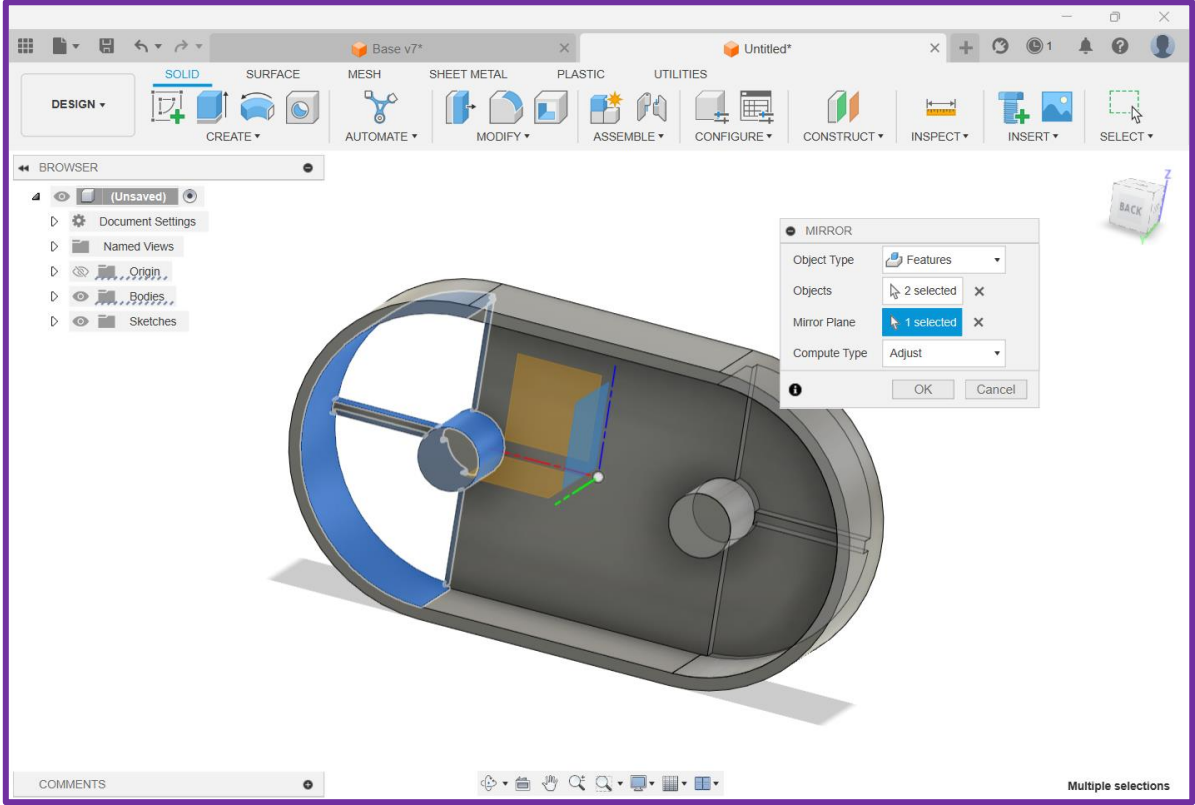
Step 15:



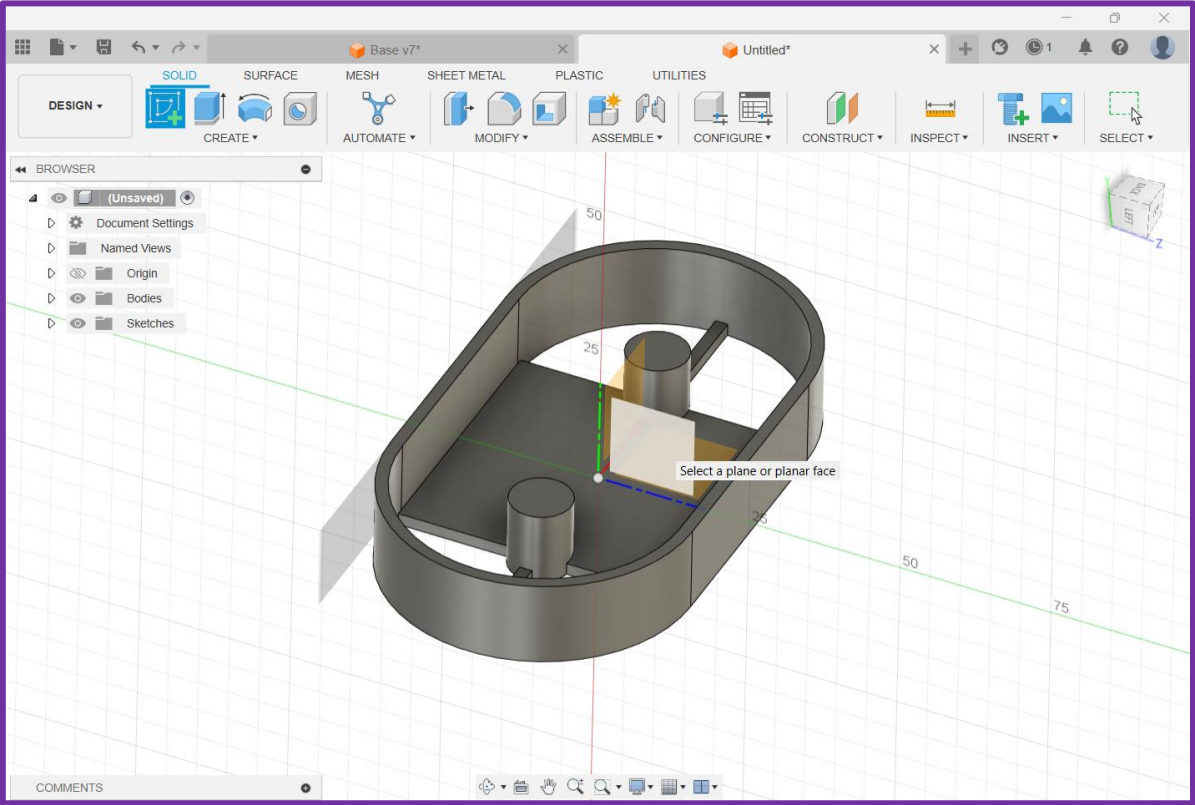
Step 16:



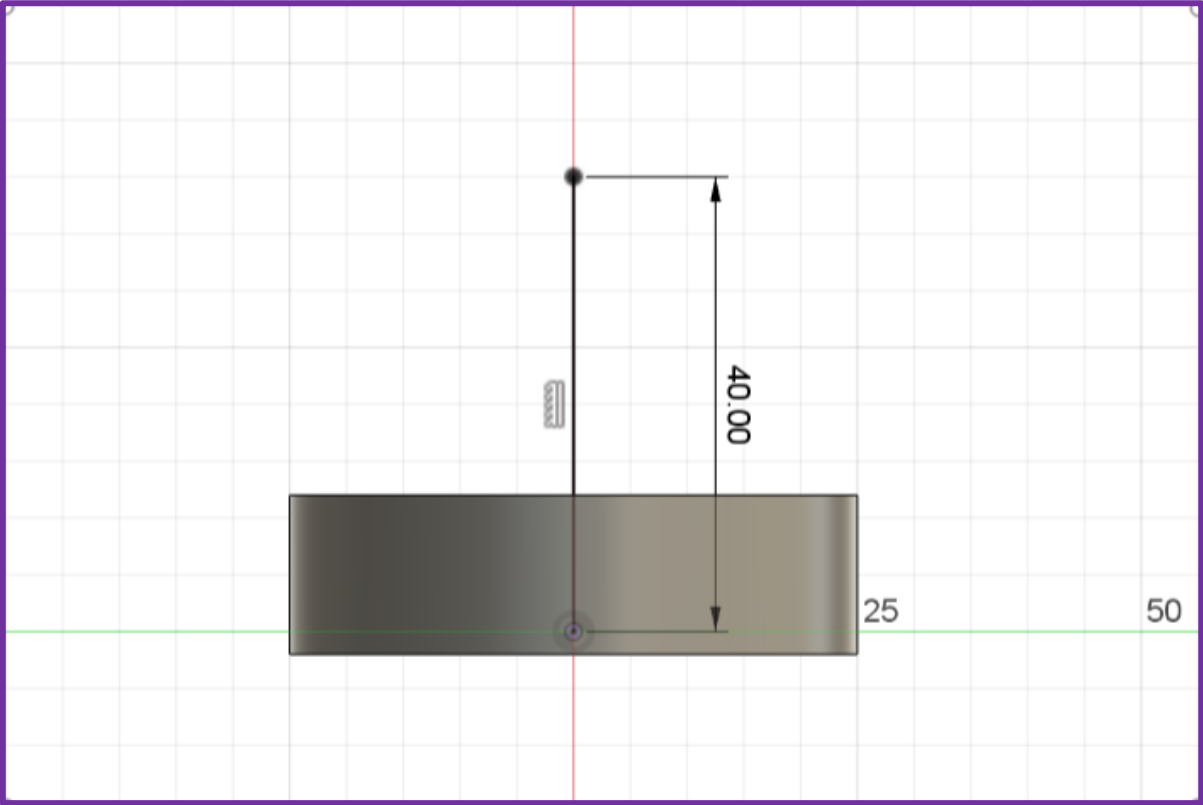
Step 17:



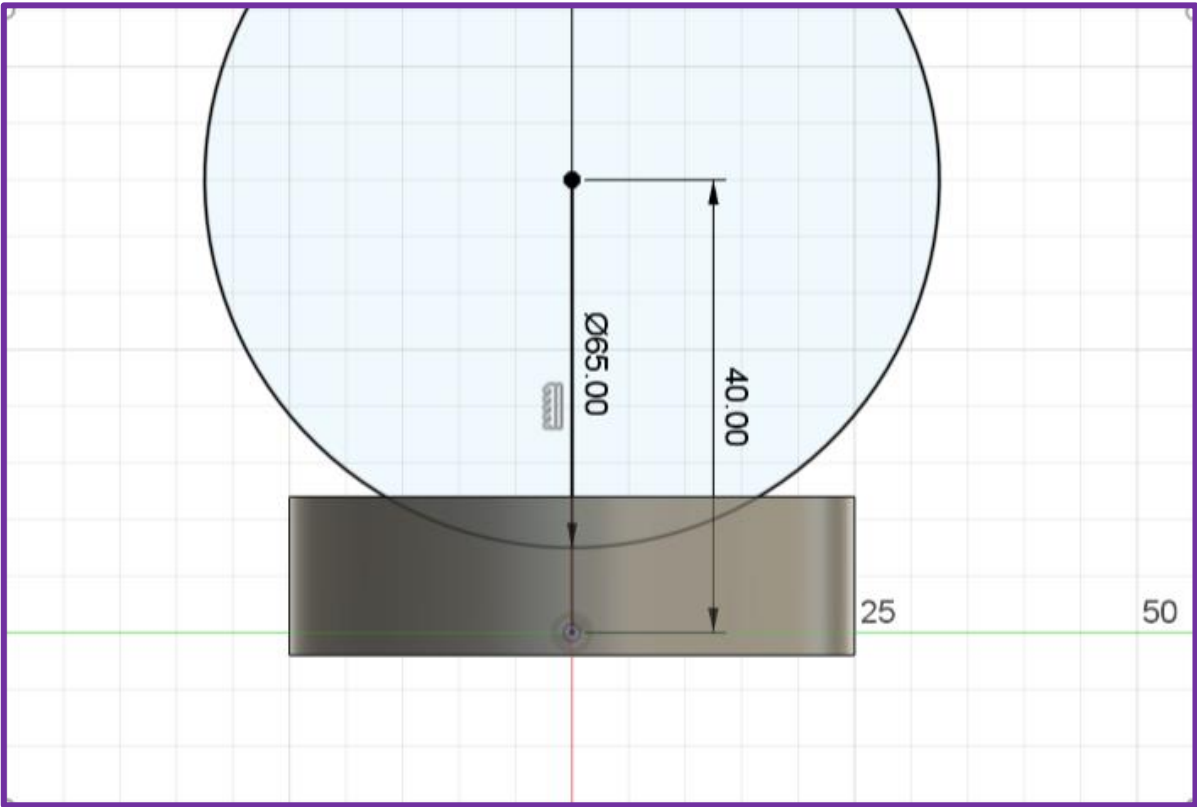
Step 18:



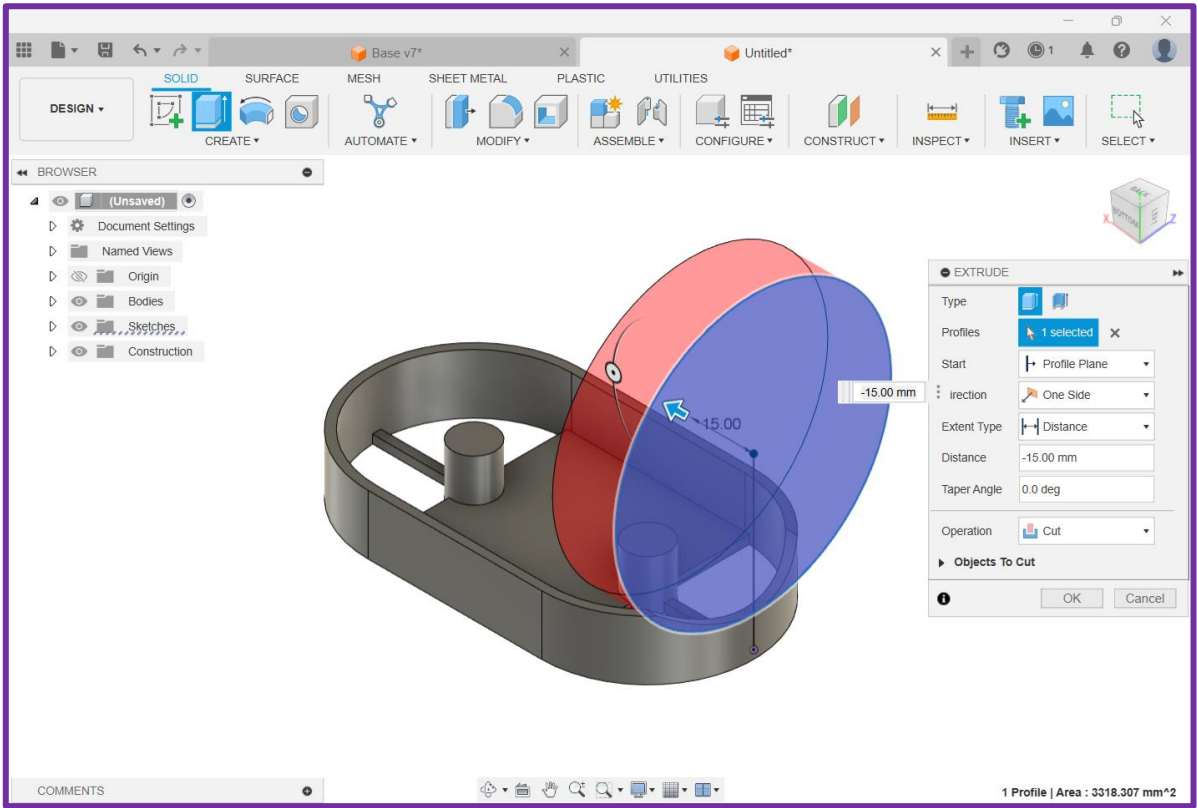
Step 19:



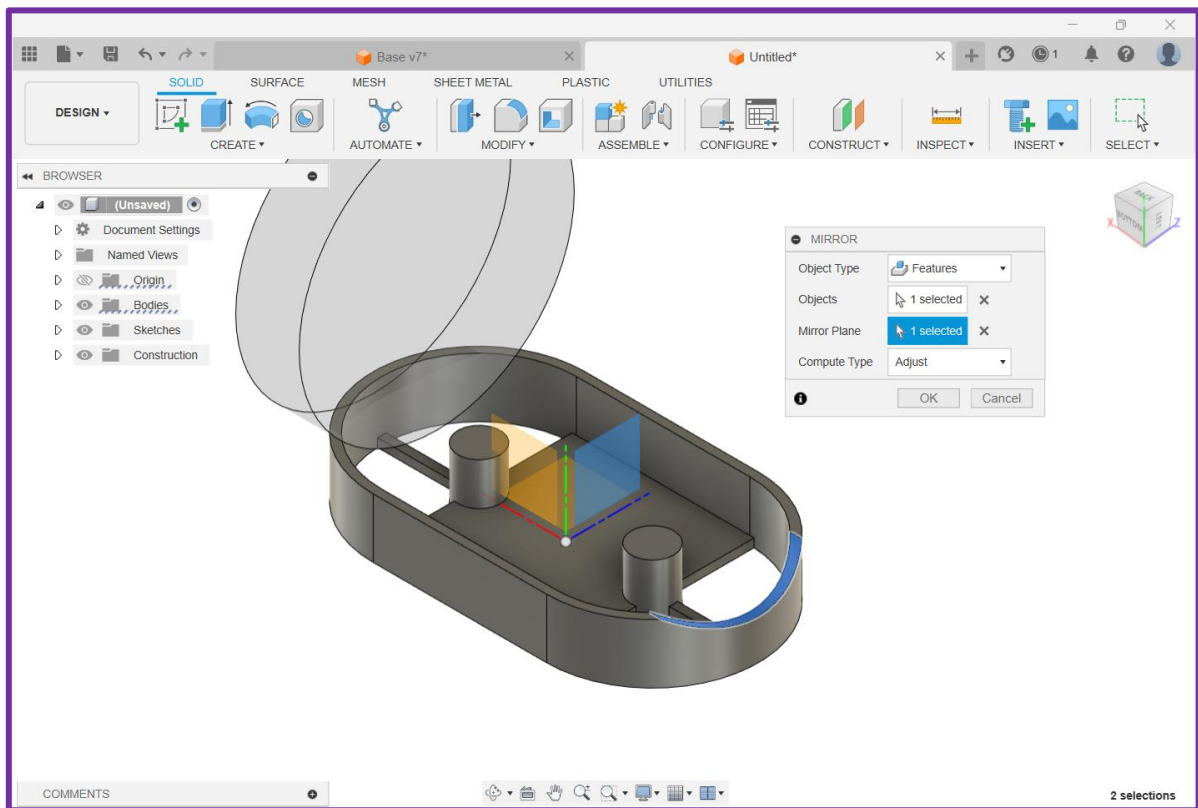
Step 20:



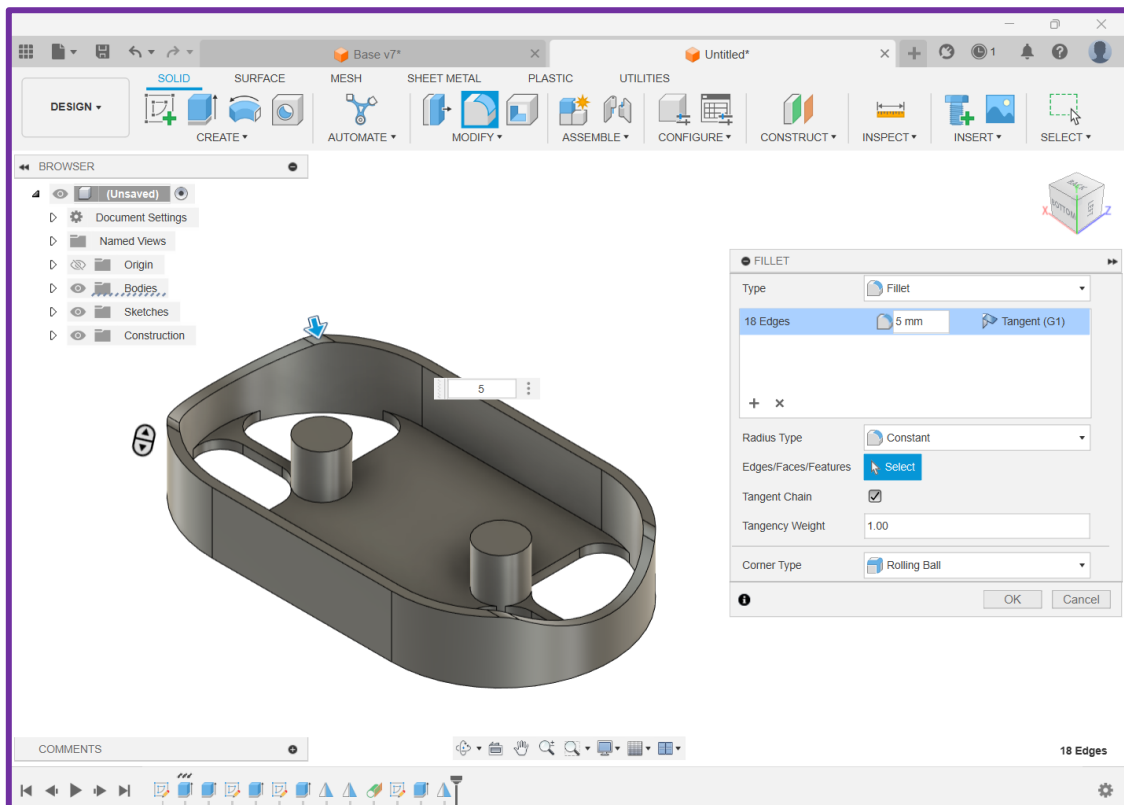
Step 21:



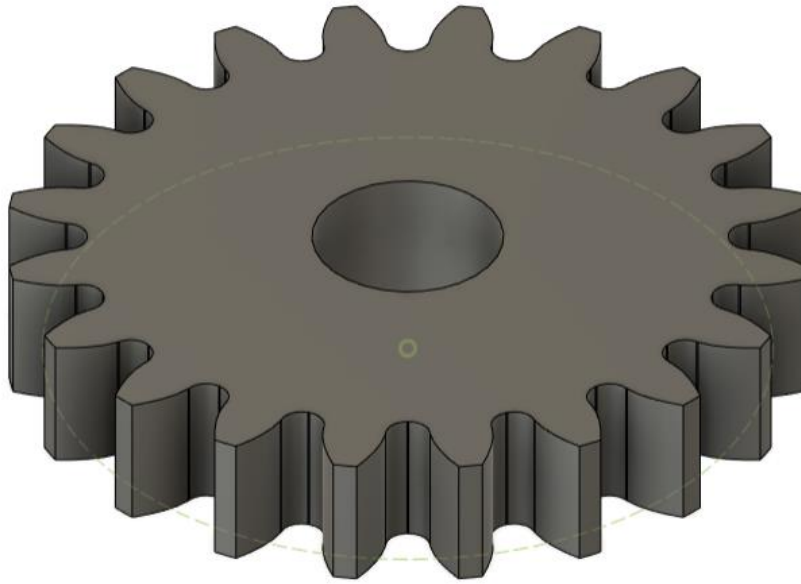
Step 22:



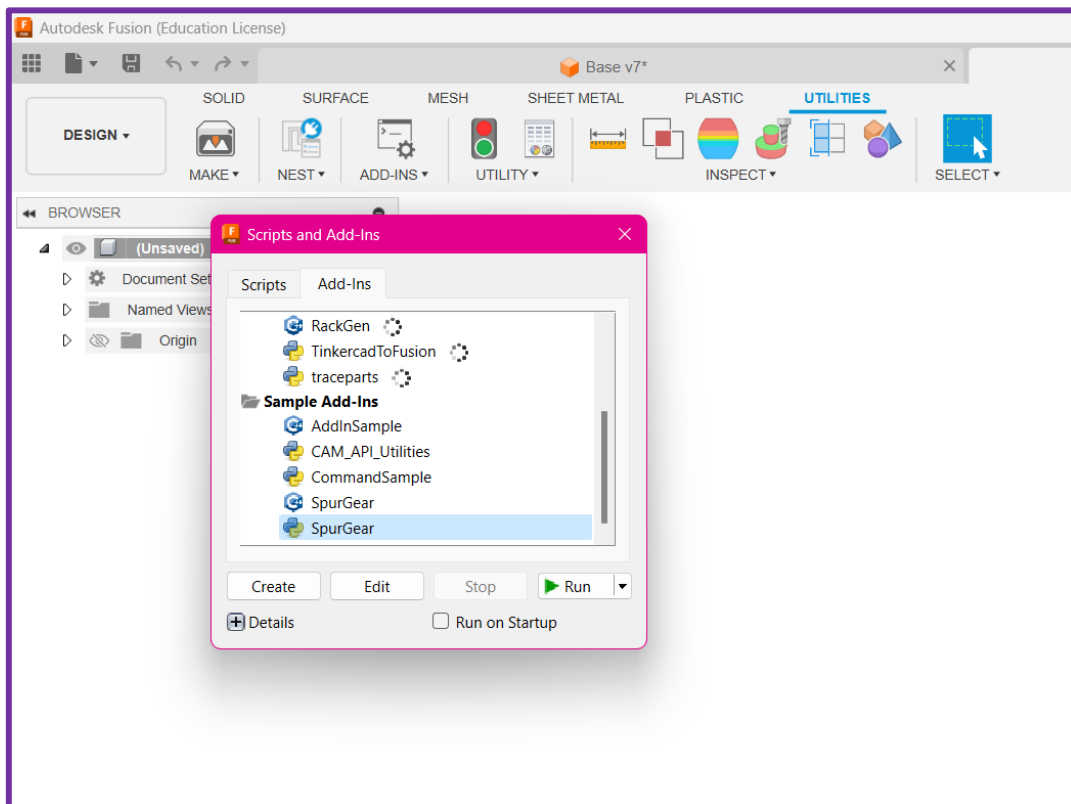
Step 23:



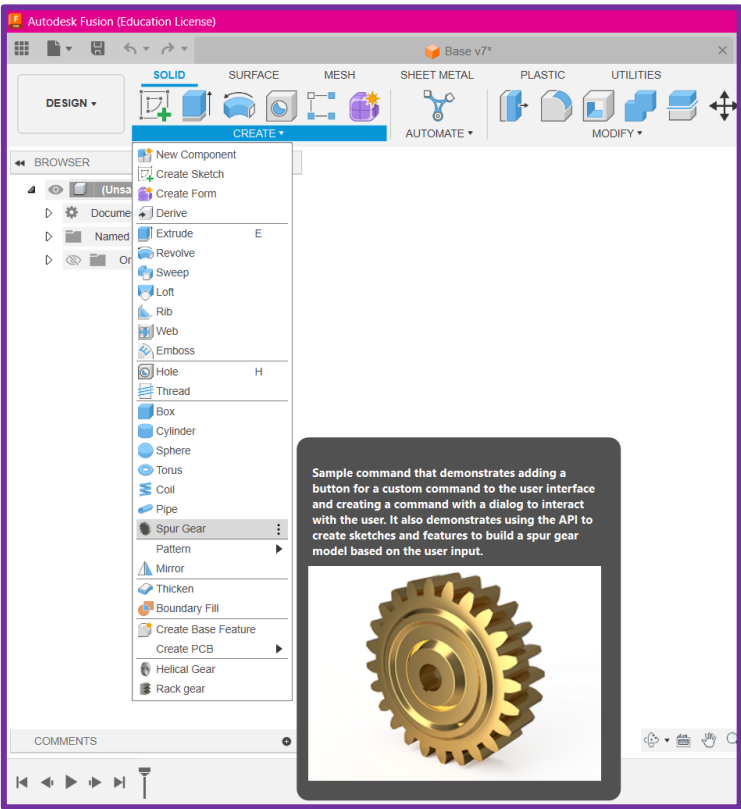
Part 2: Gear



Step 1:



Step 2:



Step 3:

SPUR GEAR

Module: Size Ratio (Pitch Dia. / # of Teeth)

Pitch Diameter

Hole Dia.

Root Fillet Radius

Standard

Metric

Pressure Angle

20 deg

Module

2

Number of Teeth

20

Backlash

0.15 mm

Root Fillet Radius

1.18

Gear Thickness

7.5 mm

Hole Diameter

10.5 mm

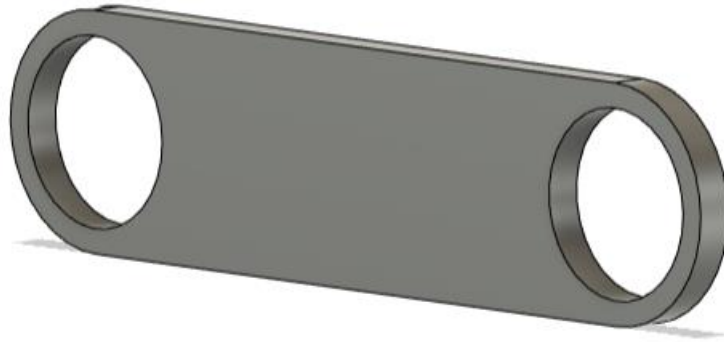
Pitch Diameter

40.00 mm

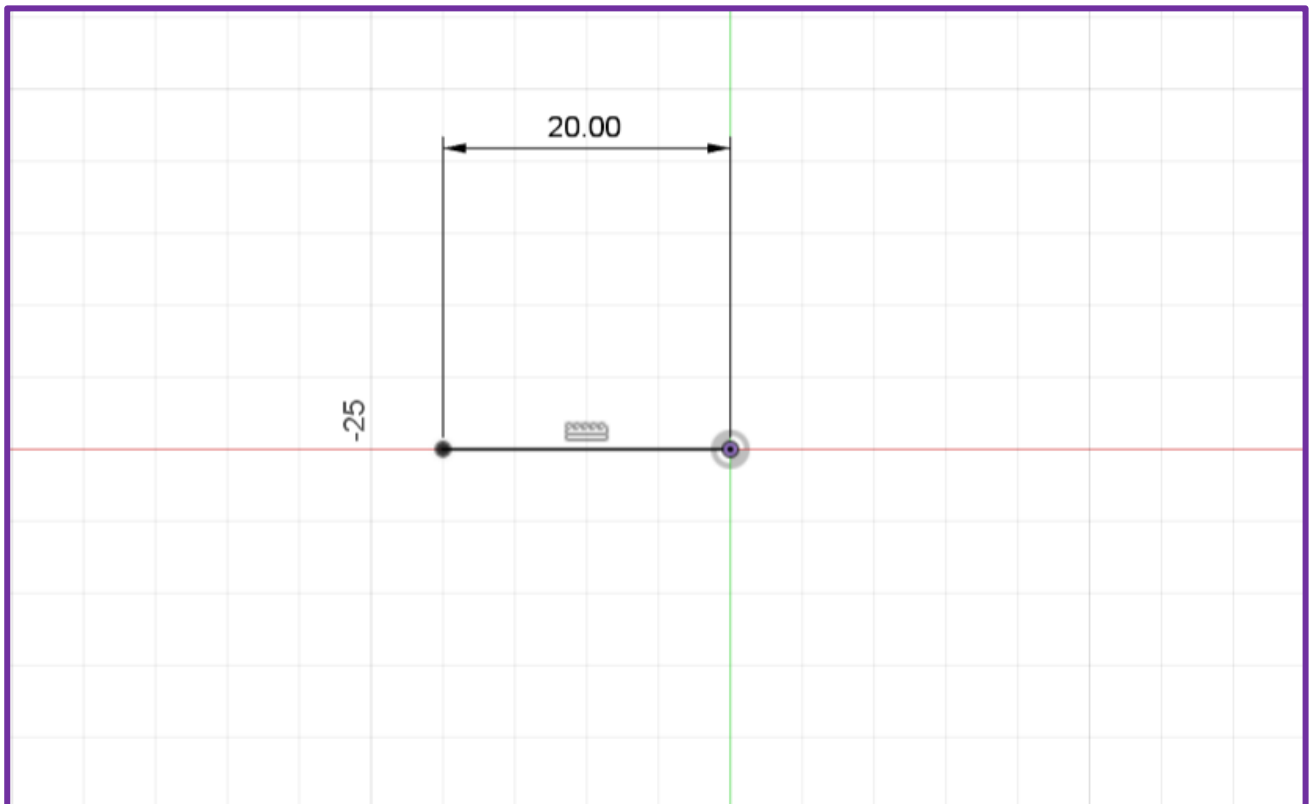
OK

Cancel

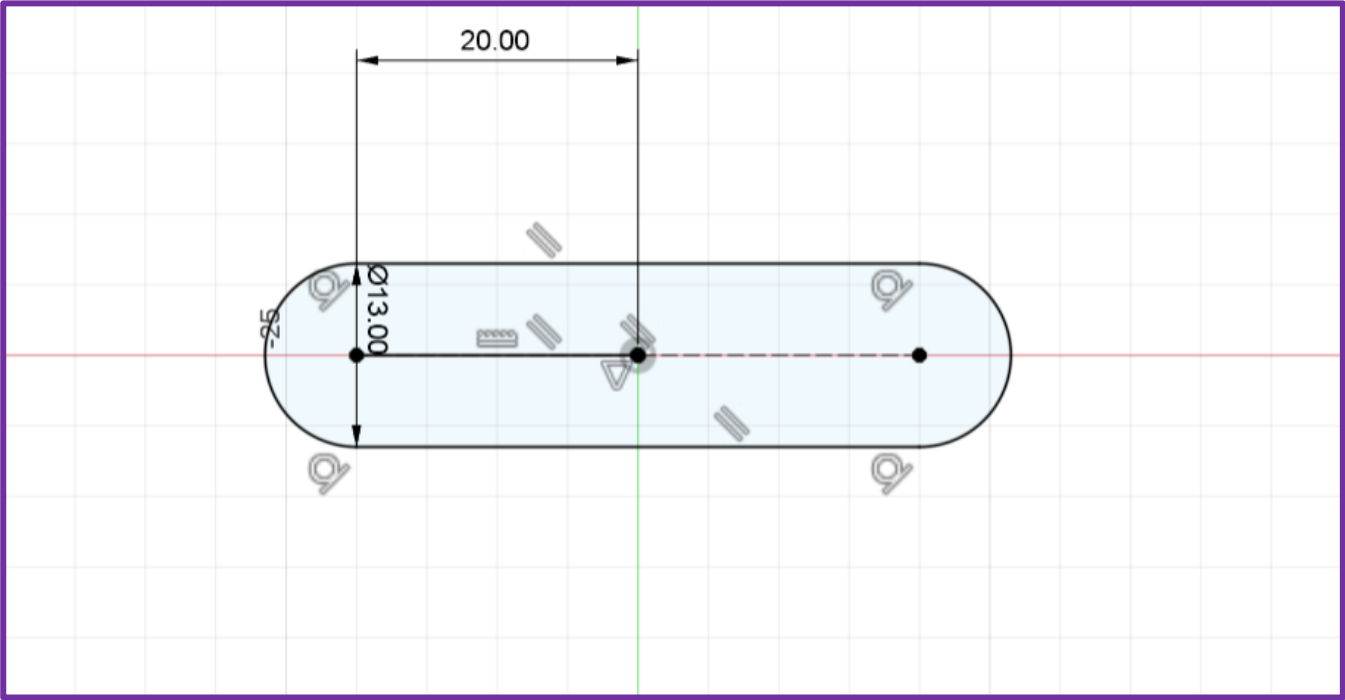
Part 3: Cap



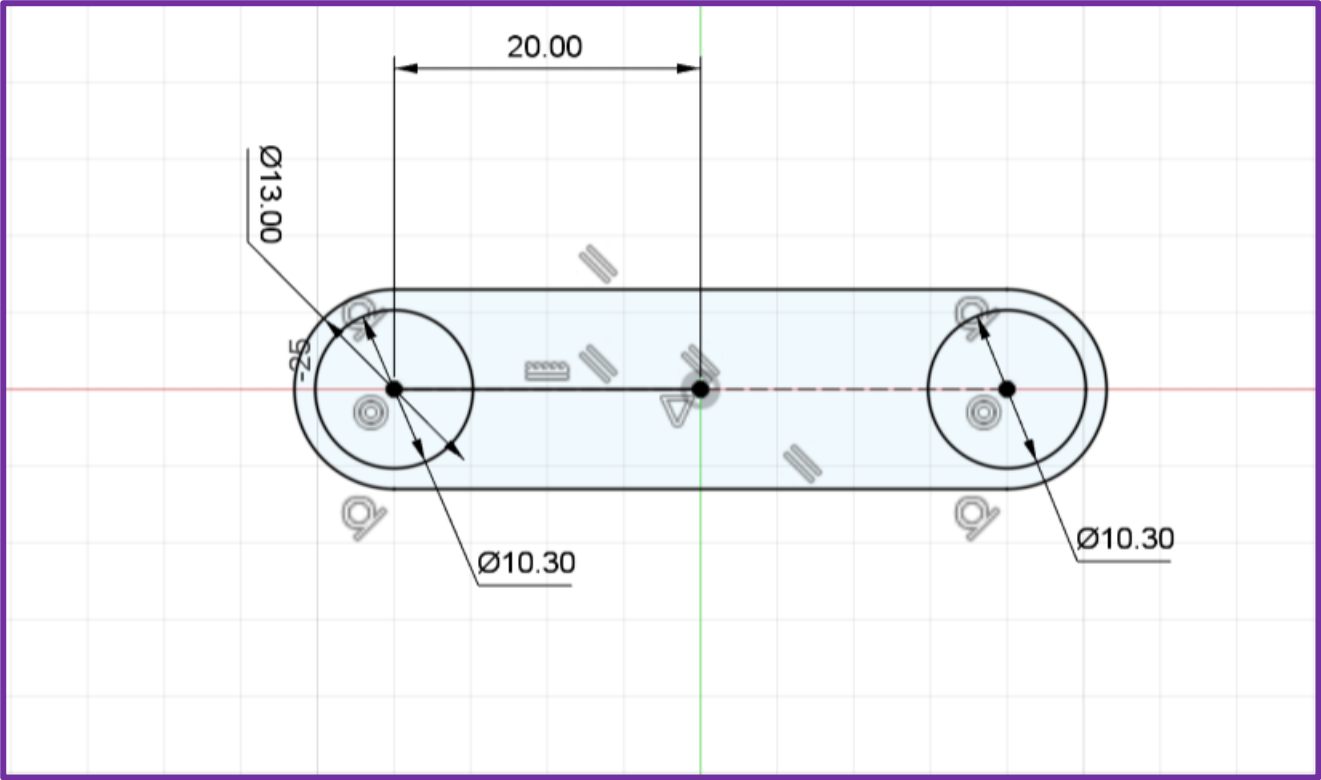
Step 1:



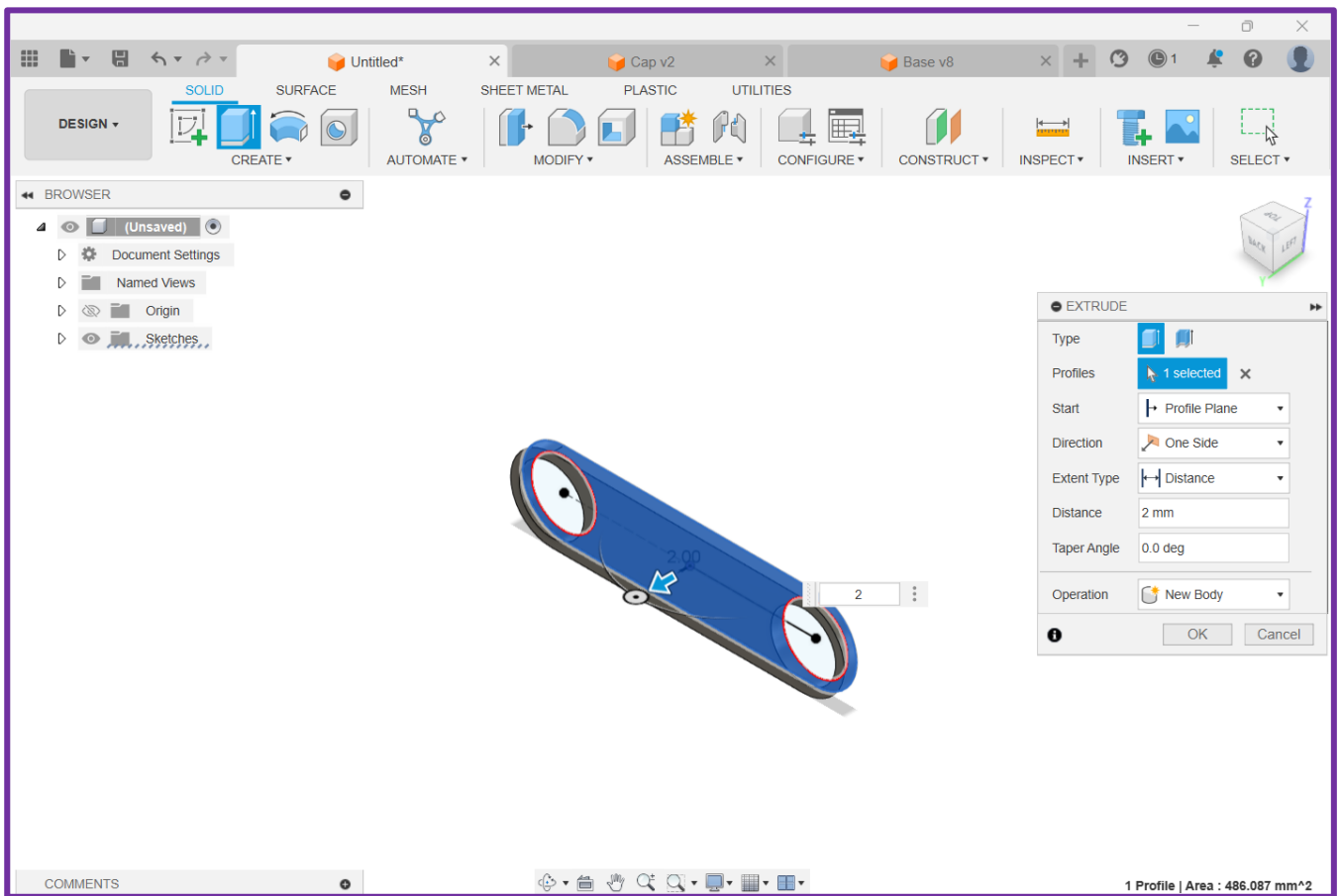
Step 2:



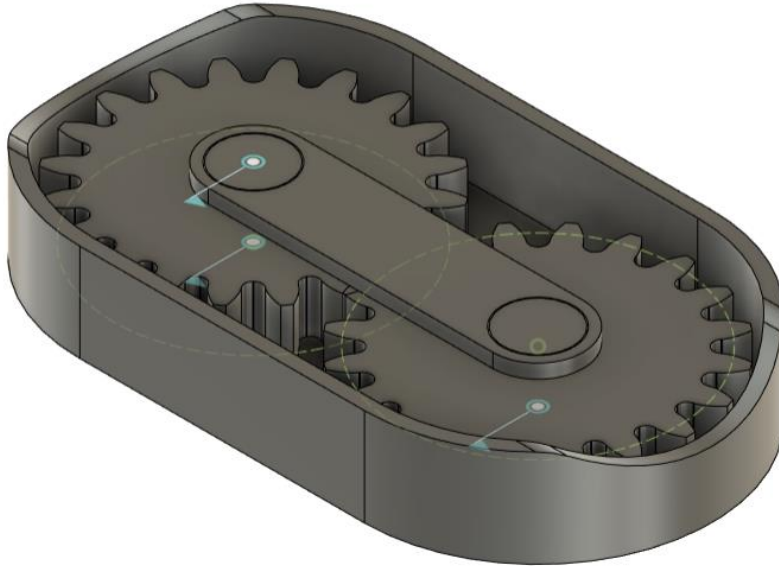
Step 3:



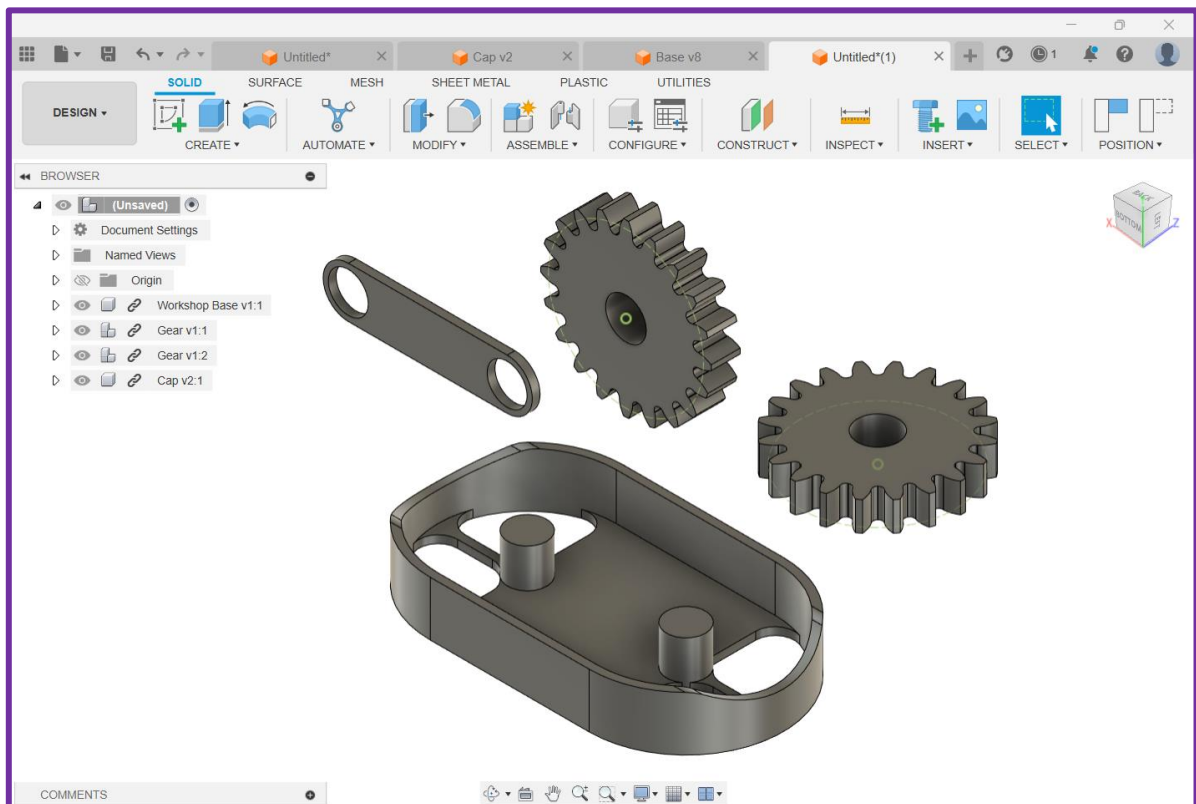
Step 4:



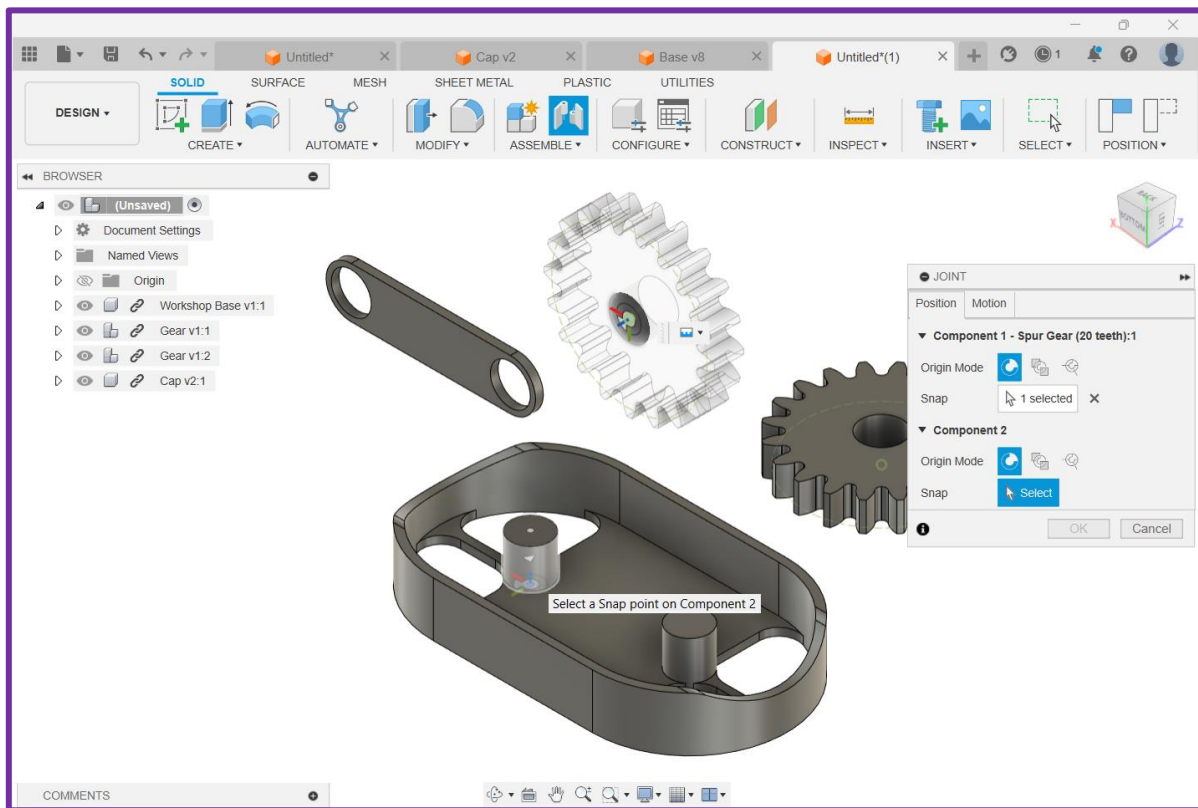
Assembly



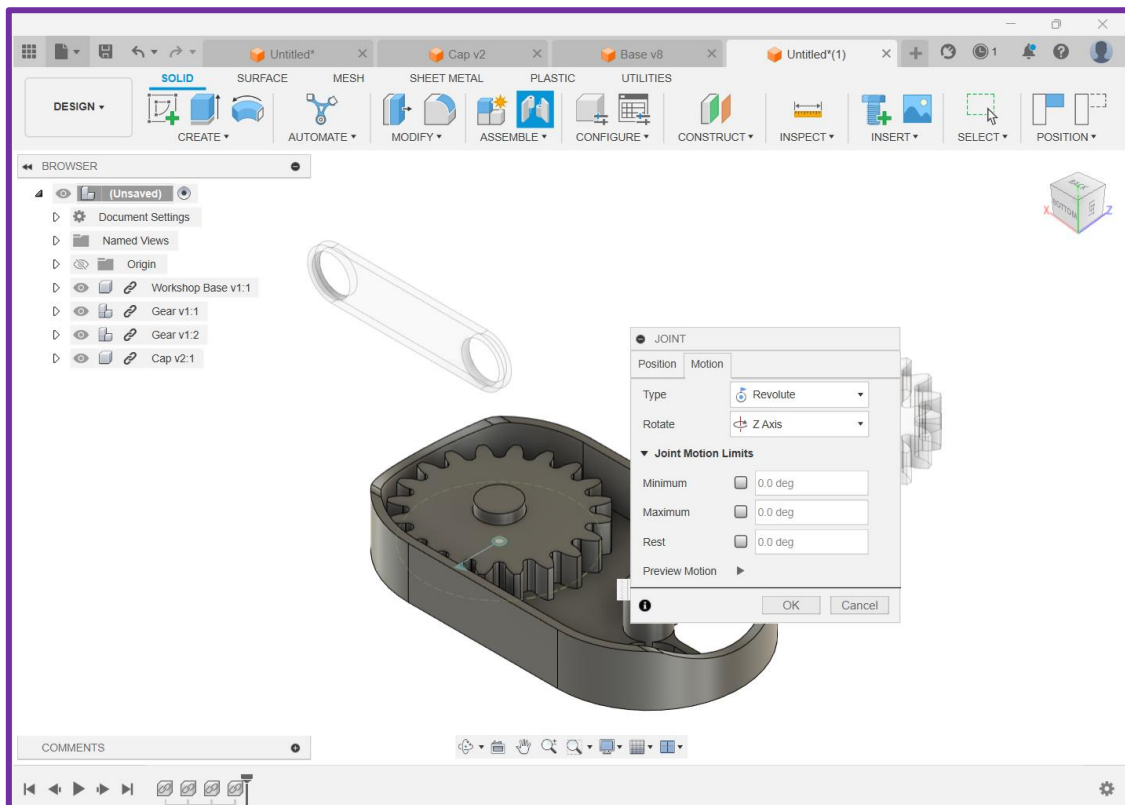
Step 1:



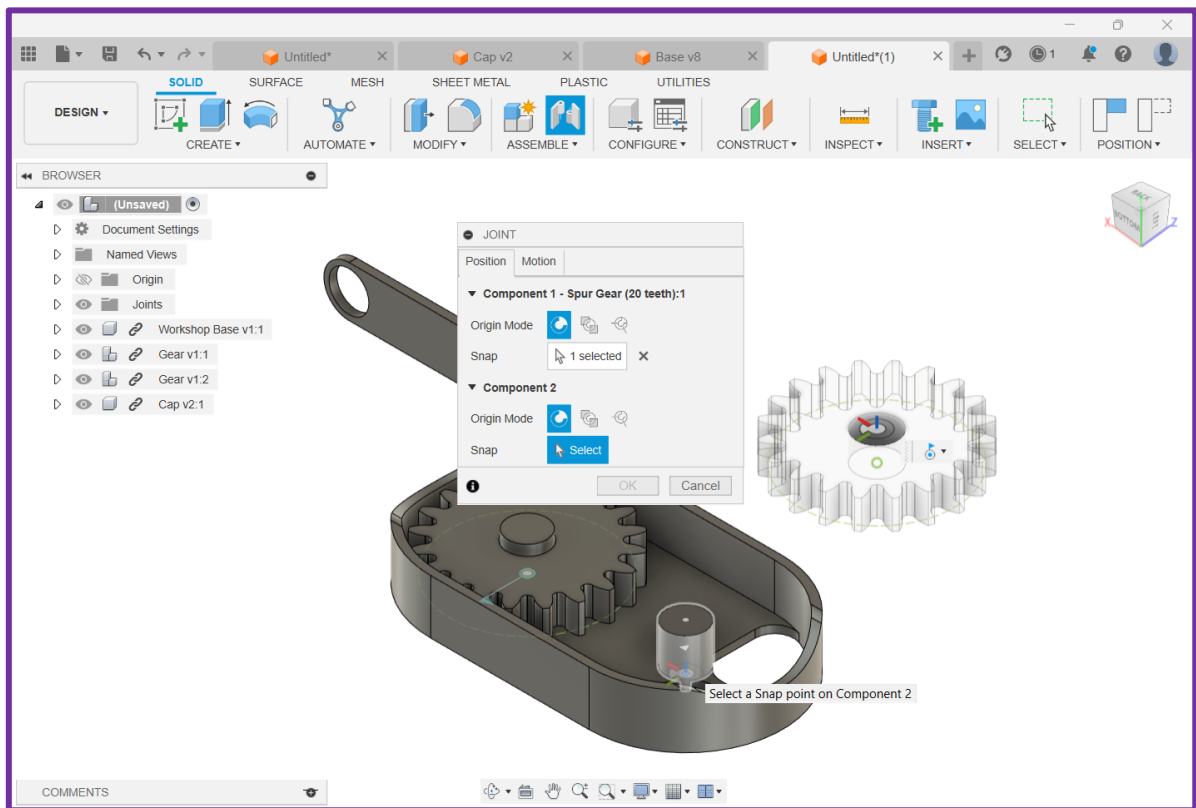
Step 2:



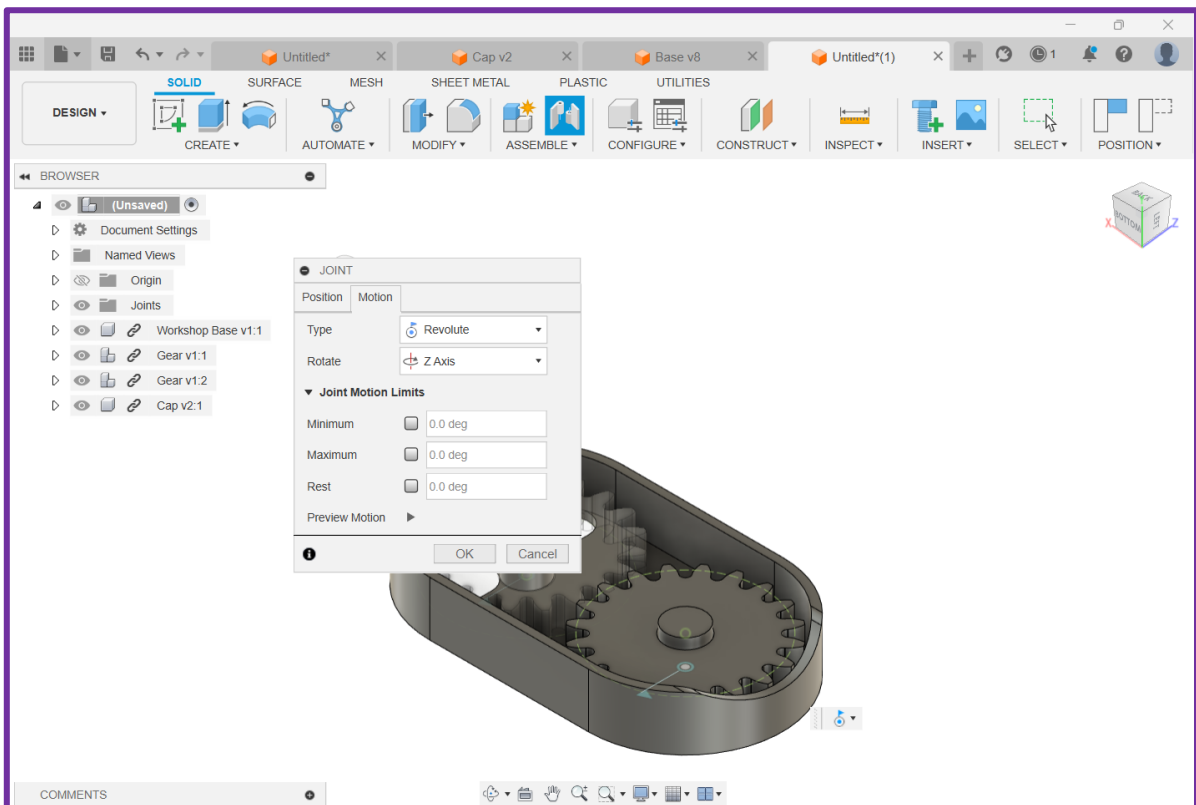
Step 2.5:



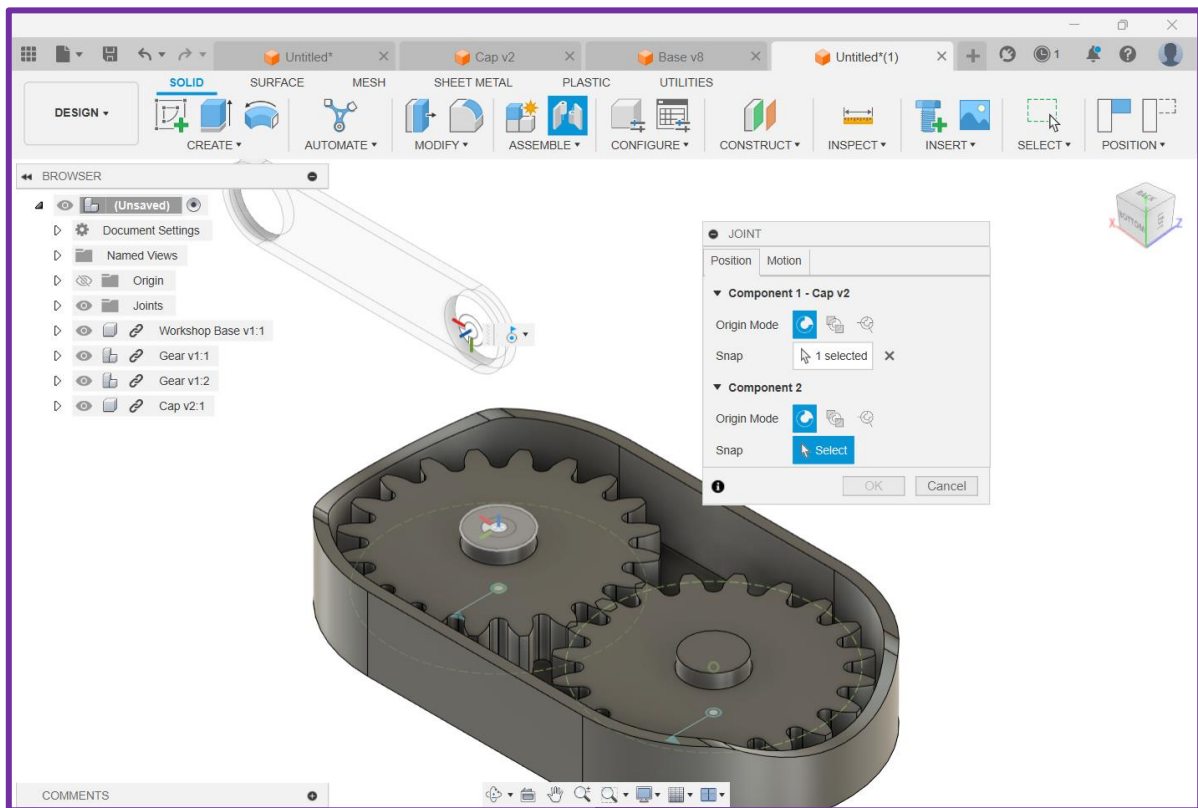
Step 3:



Step 3.5:



Step 4:



Step 4.5:

