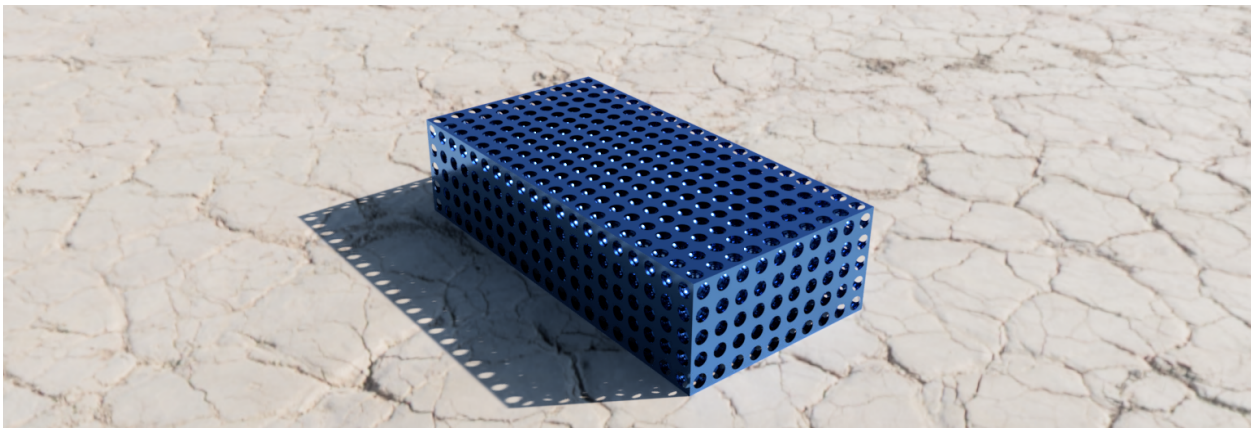


Assignment-2

Problem statement: Create a 3D geometry starting with unit cell and lattice structure. made by performing Boolean operations on primitive geometry.

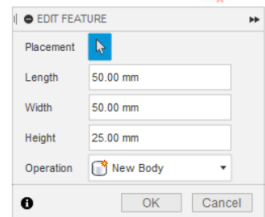
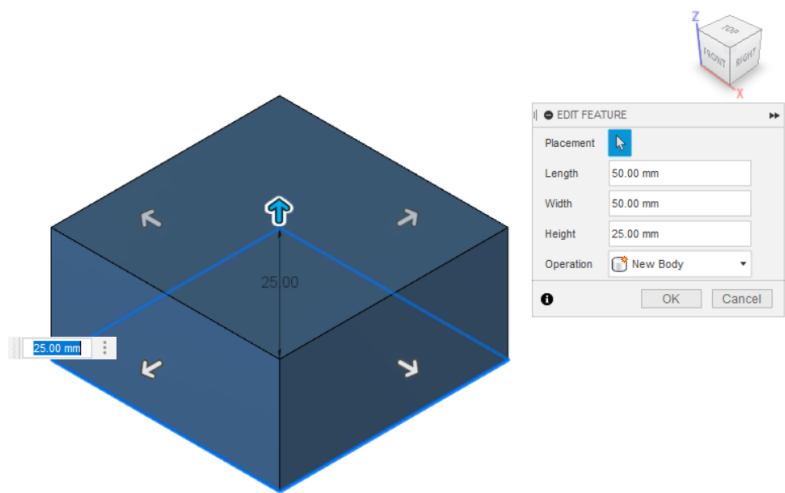
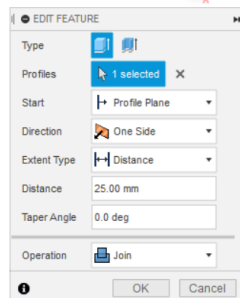
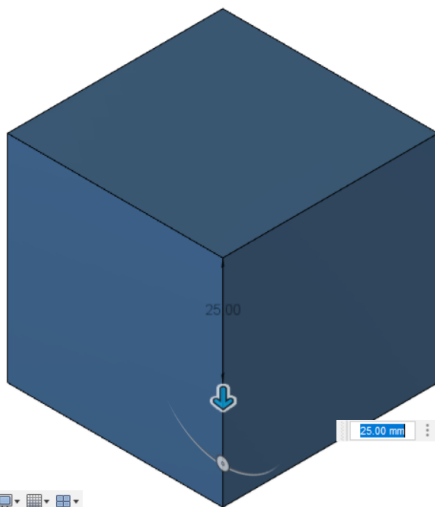
Solution:

The following structure is made using Fusion 360. Boolean cut and pattern operations were performed.



Step-1:

First half of cube is made with origin as center.

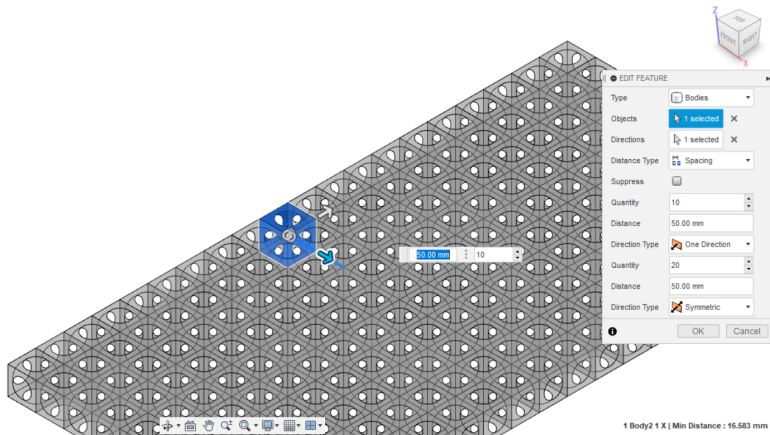
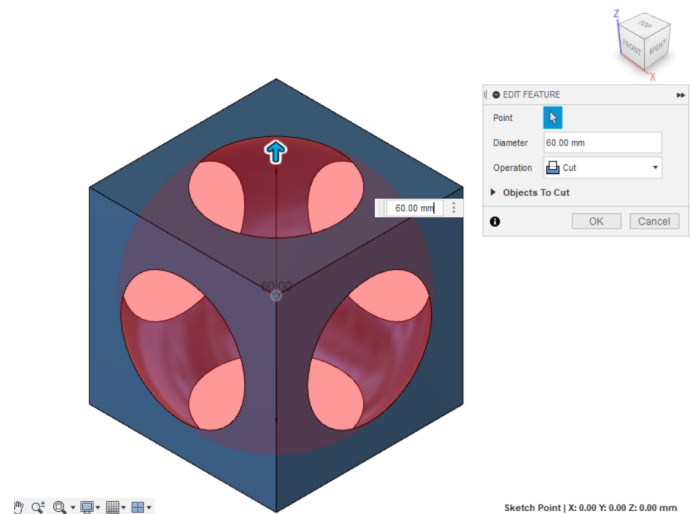


Step-2:

Second half of the cube is made with an extrusion command.

Step-3:

A sphere is made with origin as The centre. And then cut operation was performed.



Step-4:

Rectangular pattern tool was used to create the pattern.

Step-5:

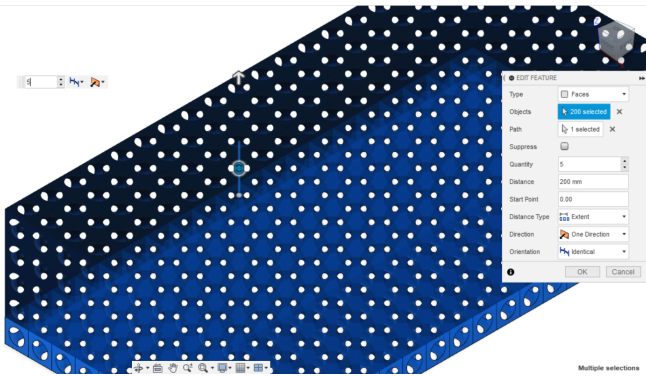
Path was sketched for



Linear pattern in order to extend the structure in the z-axis.

Step-6:

Finally the structure was made with linear pattern.



Subject: CAD/CAM

Presented by: Ishani Mishra