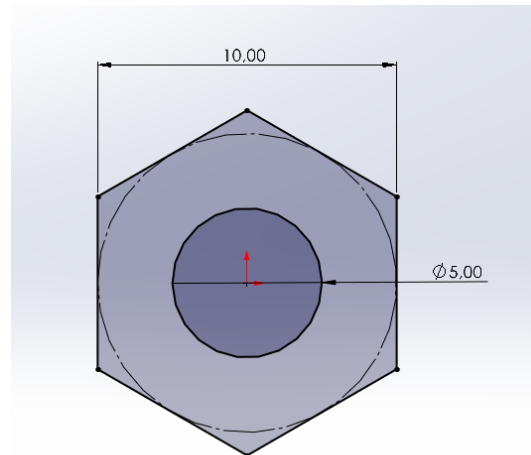


Nut

1. First sketch

- Start from origin point.
- Circle of 5 mm diameter.
- Polygon with 6 parameters.
- Shorter distance between peaks = 10 mm.

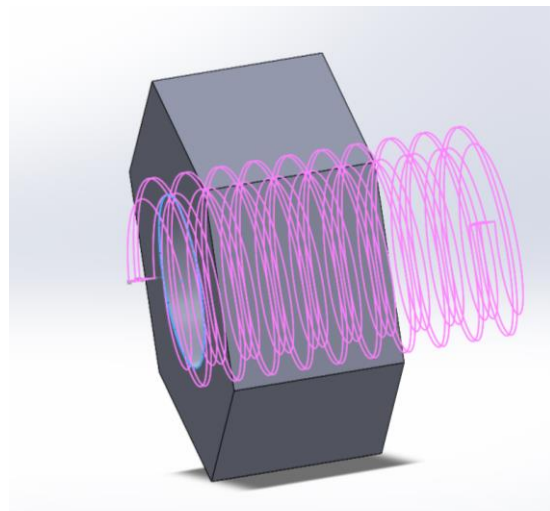


2. ExtrudeVysunutí

- 5 mm, symmetrically

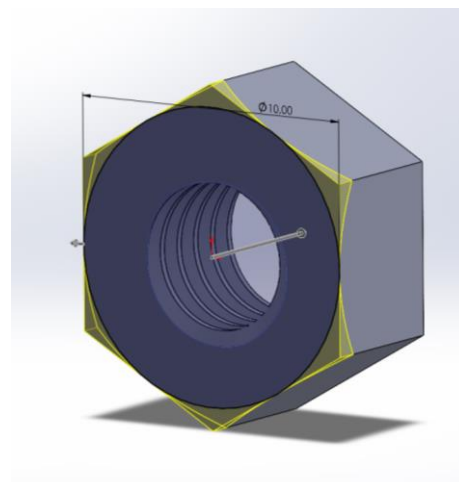
3. Screw

- offset 1 mm
- Ending 10 mm
- Size: Metric Tap M6x1.0
- Cut the screw into the part
- Right-handed screw.

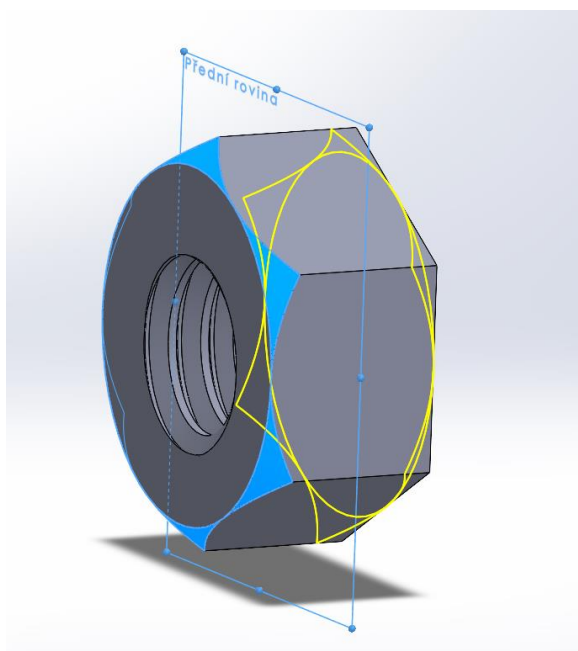


4. Remove inscribed circle

- Chamfer of 45°



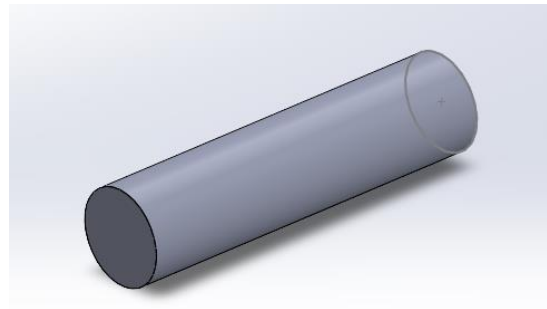
5. Mirror this removed areas
 - a. Mirror by the initial plane.



Bolt

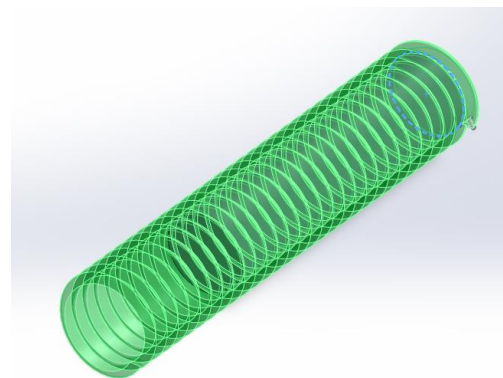
1. Basic sketch

- Start in origin point
- Circle of 5 mm diameter, extrude by 20 mm.

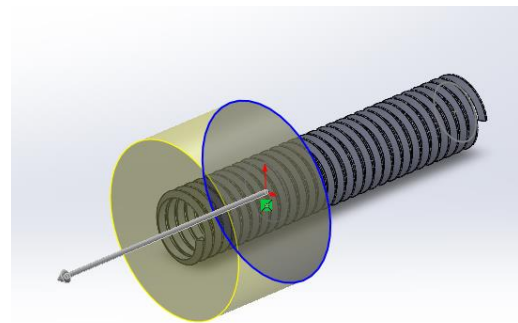


2. Create a screw

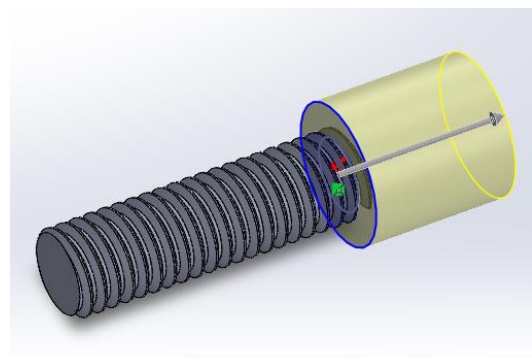
- On one of the end circles.
- Offset 1 mm
- Ending over the end of the part.
- Size: Metric Tap M6x1.0
- Extrude the screw from the part. Right handed screw.



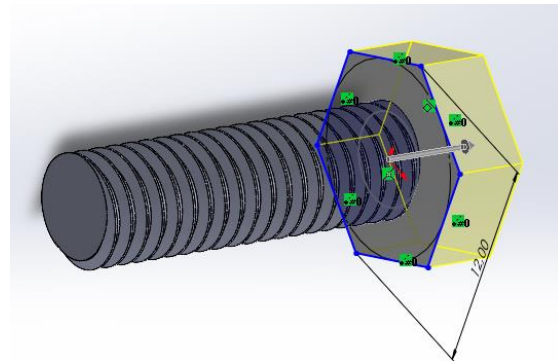
3. Remove the overhanging part of the screw by removing a big circular sketch.



4. In the same way remove the other overhanging end.

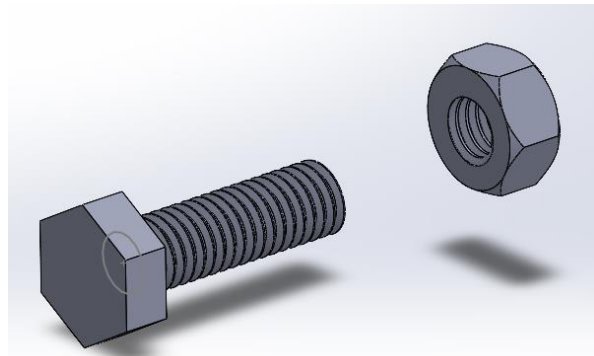


5. On end plane create a sketch.
 - a. On it a polygon of 6 parameters and the distance of longer peaks of 12 mm.
 - b. Extrude by 4 mm.

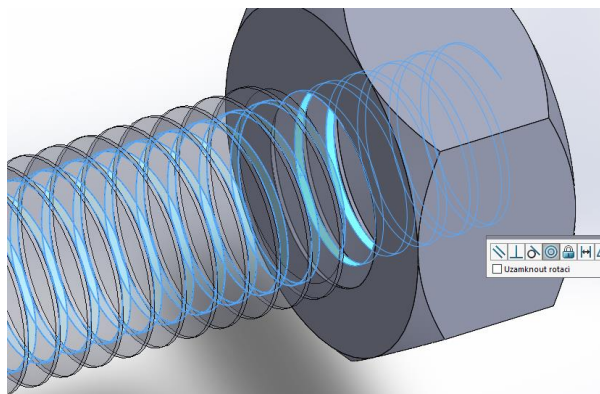


Assembly

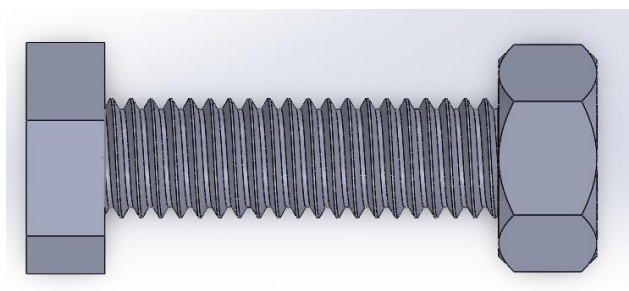
1. Create a new assembly.
 - a. Insert both parts.



2. Create a concentric bond between the extruded screw part of the nut and removed screw part of the bolt.



3. Align the end of the bolt with the nut.



4. Add a mechanical mate of screw type to the same planes as in previous bond.

