

Working with Imported STEP Files

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Learning Objectives

In this tutorial we will learn to,

- ▶ **Import a STEP file in FreeCAD**
- ▶ **Understand why File Import is preferred over Open option**

Learning Objectives

- ▶ **Use the Defeaturing tool to remove unwanted features**
- ▶ **Create a sketch and make a Pocket in the model**



System Requirements

To record this tutorial, I am using:

- ▶ **Windows 11**
- ▶ **FreeCAD v1.0.0**

EduPyramids periodically verifies the correctness of the tutorials for subsequent versions. Changes, if any, are explained through the Instruction Sheet.



Pre-requisites

To follow this tutorial,

- ▶ **Learners should know the basics of FreeCAD interface**

Code Files

The following code files are required to practice this tutorial

- 1. Pin.step**
- 2. Hole.step**
- 3. Example.step**
- 4. Sample.step**

These files are provided in the Code Files link of this tutorial page



Summary

In this tutorial we learnt to,

- ▶ **Import a STEP file in FreeCAD**
- ▶ **Understand why File Import is preferred over Open option**

Summary

- ▶ **Use the Defeaturing tool to remove unwanted features**
- ▶ **Create a sketch and make a Pocket in the model**



Assignment

- ▶ **Import a Sample.step file into FreeCAD**
- ▶ **Defeature it by removing both the rectangle protrusions**
- ▶ **Add a Body and BaseFeature**
- ▶ **Create a circular sketch on a face and pocket it by 10 mm**



Thank you

