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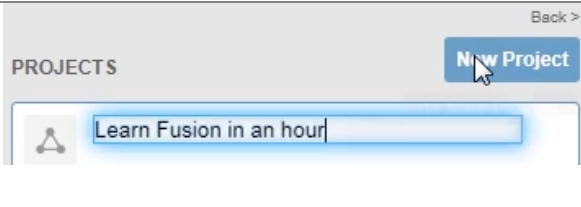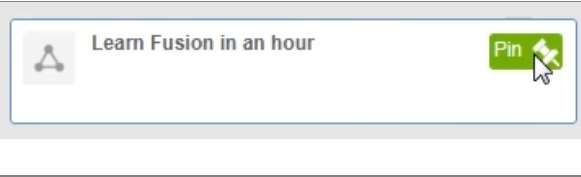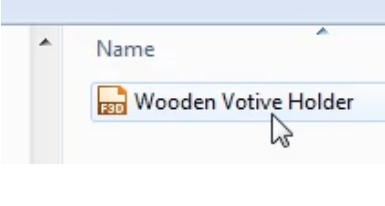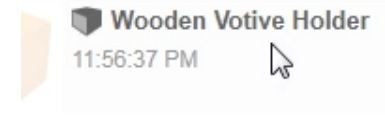
Lesson: Create an extrude cut

In this lesson, you will create an extrude cut.

Learning Objectives:
- Create a project.
- Import a file.
- Use Extrude.
- Use Circular Pattern.
- Save a file.
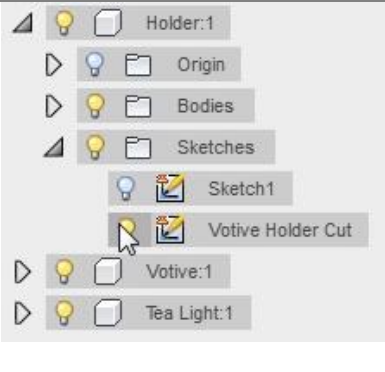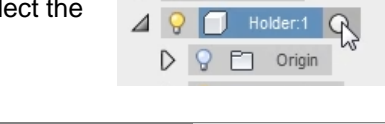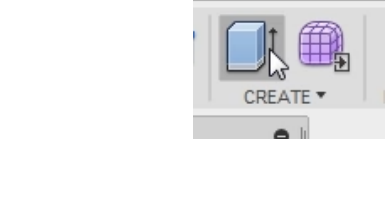
Step 1: Create a new project and open the Wooden Votive Holder file

1.	Open Fusion360 and expand the Data Panel.	
2.	Create a new project and name it, "Learn Fusion in an hour".	
3.	Pin the project to the top of the Data Panel and double click the project.	
4.	Create a new folder and name it "Wooden Votive", double click on the folder and select upload.	
5.	Navigate to the data set provided with the course.	

6.	Upload the Wooden Votive Holder.f3d file.	Name F3D Wooden Votive Holder
7.	Double click on Wooden Votive Holder in the Data Panel to open the model in the canvas.	Wooden Votive Holder 11:56:37 PM
8.	Hide the Data Panel by clicking on the Data Panel icon.	✕ [grid icon] [page icon ▾] Wooden V...c MODEL ▾

Step 2: Create the extrude cuts

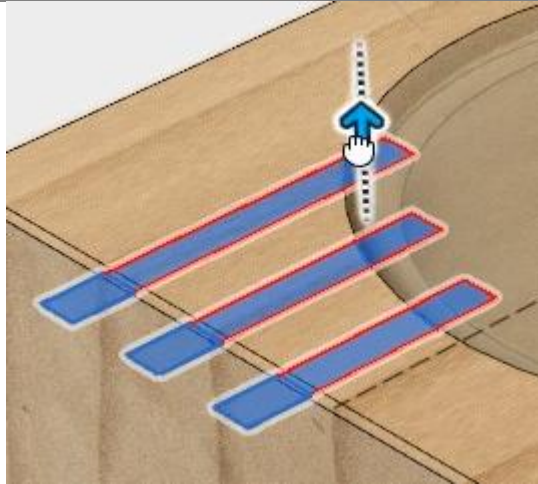|		
1.	Expand the Holder component, the Sketches folder, and show the Votive Holder Cut feature by clicking on the light bulb to the left of the feature.	Holder:1 ▷ Origin ▷ Bodies Sketches Sketch1 Votive Holder Cut ▷ Votive:1 ▷ Tea Light:1
2.	Navigate to the Holder component and select the radion button to the right.	Holder:1 ▷ Origin
3.	Click on the Create tab.	CREATE ▾

4.	Select the profiles for the Extrude feature and use the left mouse button to drag the arrow downwards all the way through the body.	
5.	Change the Extent to All.	
6.	Deselect Votive and click OK.	
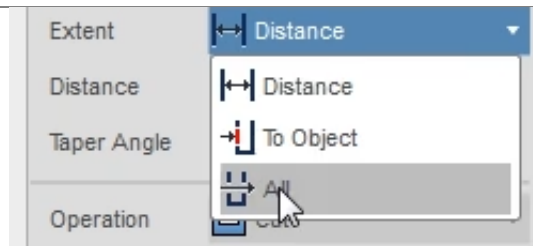
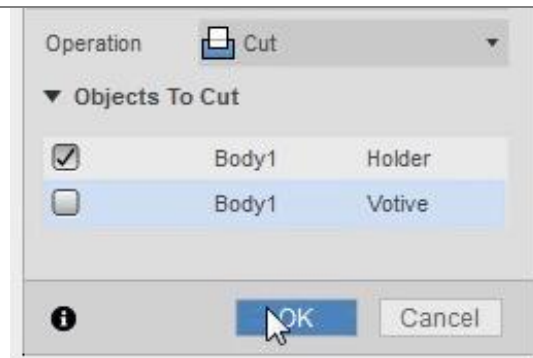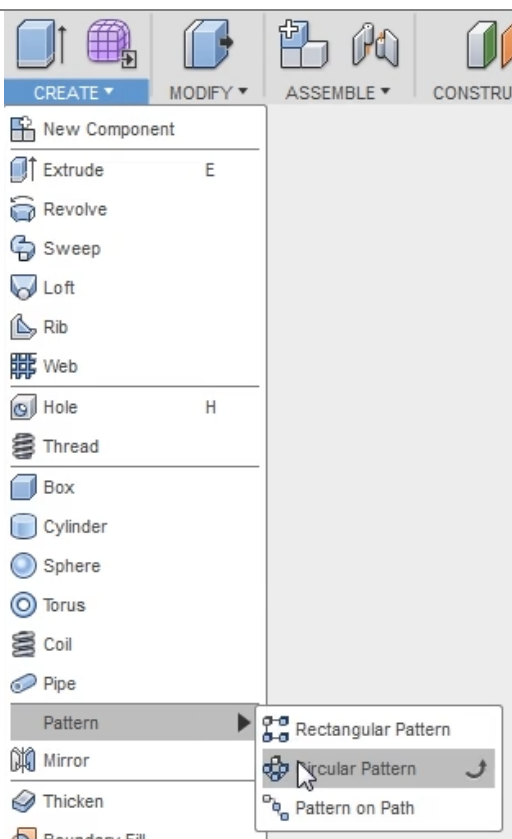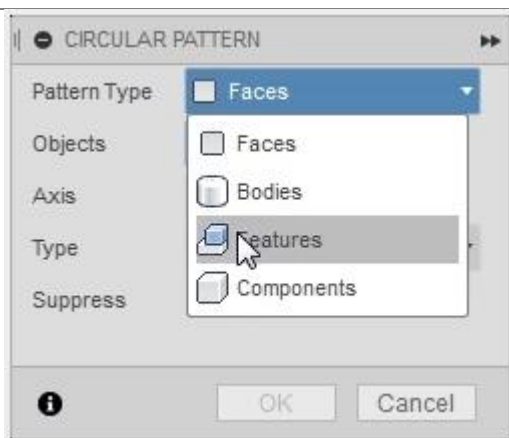|		
7.	Click on Create> Pattern> Circular Pattern.	CREATE ▾ MODIFY ▾ ASSEMBLE ▾ CONSTRU ⊞ New Component ⬛↑ Extrude E 🍥 Revolve 🍥 Sweep 🥄 Loft 🛝 Rib 🎛 Web ⊙ Hole H 🧵 Thread 🗔 Box 🛢 Cylinder ◯ Sphere ◎ Torus 🧵 Coil 🥄 Pipe Pattern ▶ 🔳 Rectangular Pattern 🪞 Mirror 🔶 Circular Pattern ⤵ 🍃 Thicken 🔳 Pattern on Path 🔺 Boundary Fill
8.	Use the Pattern Type dropdown menu to select Features.	‖ ● CIRCULAR PATTERN ▶▶ Pattern Type ☐ Faces ▾ Objects ☐ Faces Axis ▣ Bodies Type 🗔 Features Suppress 🗔 Components ℹ OK Cancel
9.	Select the Extrude feature from the timeline at the bottom of the screen.	⊕ ‖ ▾ ◩ 🍥 ⬛↑

10.	Select the axis for the Circular Pattern by clicking on the Y-axis in the Browser.	◢ 💡 🗔 Holder:1 ◉
		  ◢ 💡 🗔 Origin
		    💡 ◈ O
		    💡 🔲 X
		    💡 🔲 Y
		    💡 🔲 Z
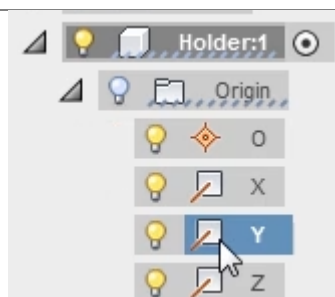
11. Change the number of instance to 4 and select OK in the Circular Pattern feature panel.	
12. Click on the radion button beside Wooden Votive Holder in the Browser to activate the top level.	
13. Save the file and name the file, "Votive Holder Cuts".	