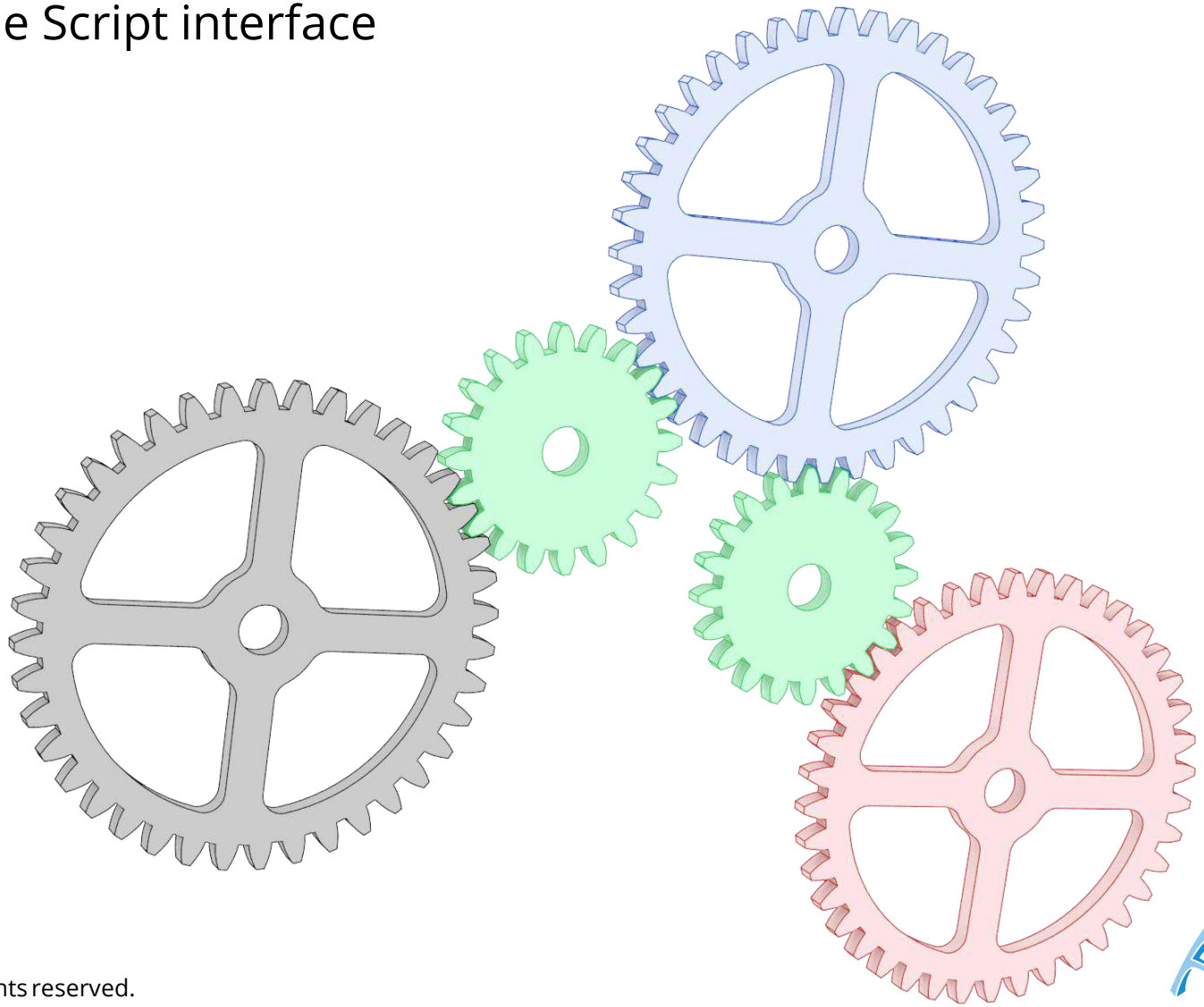
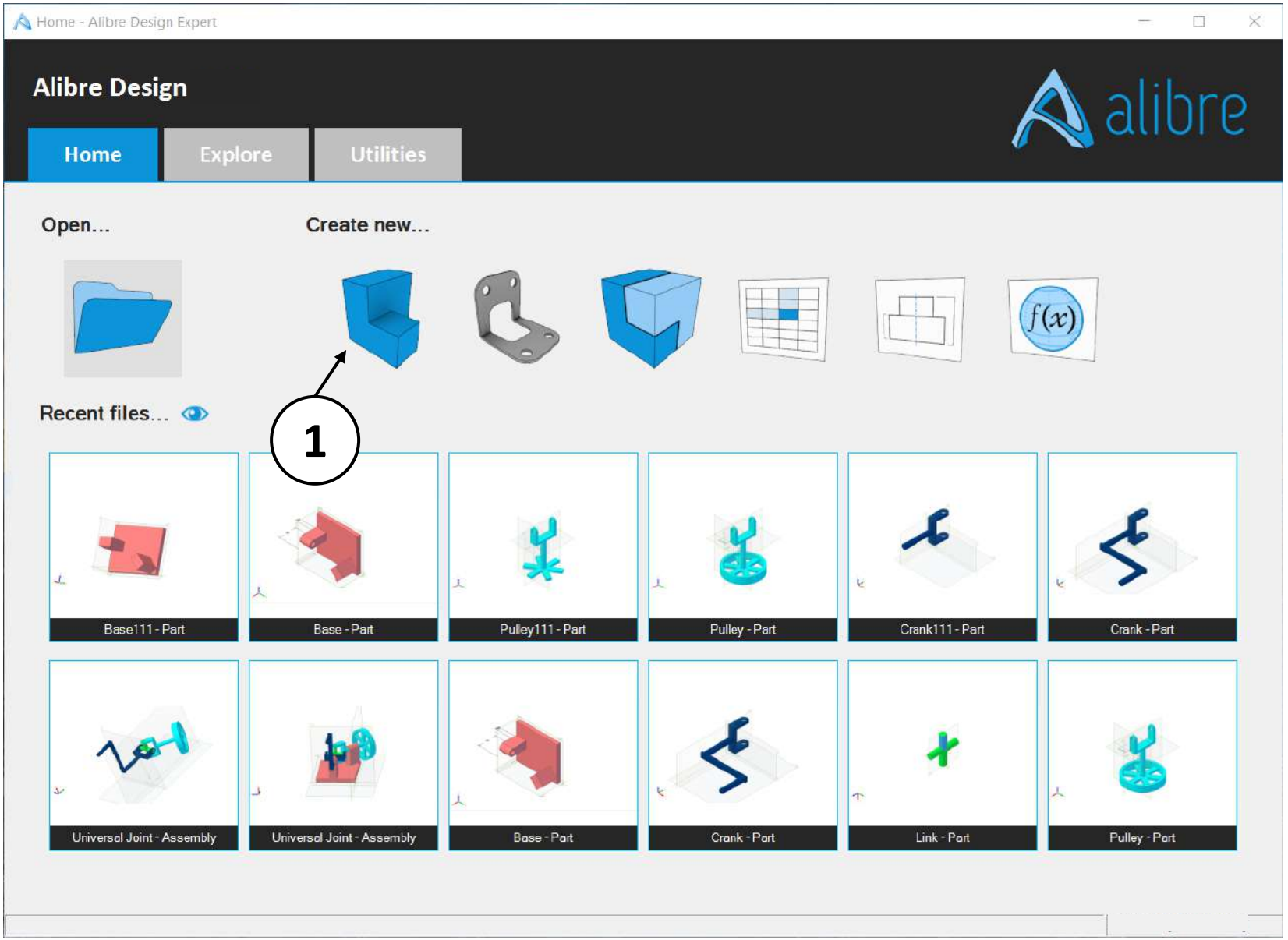
Alibre Script Getting Started

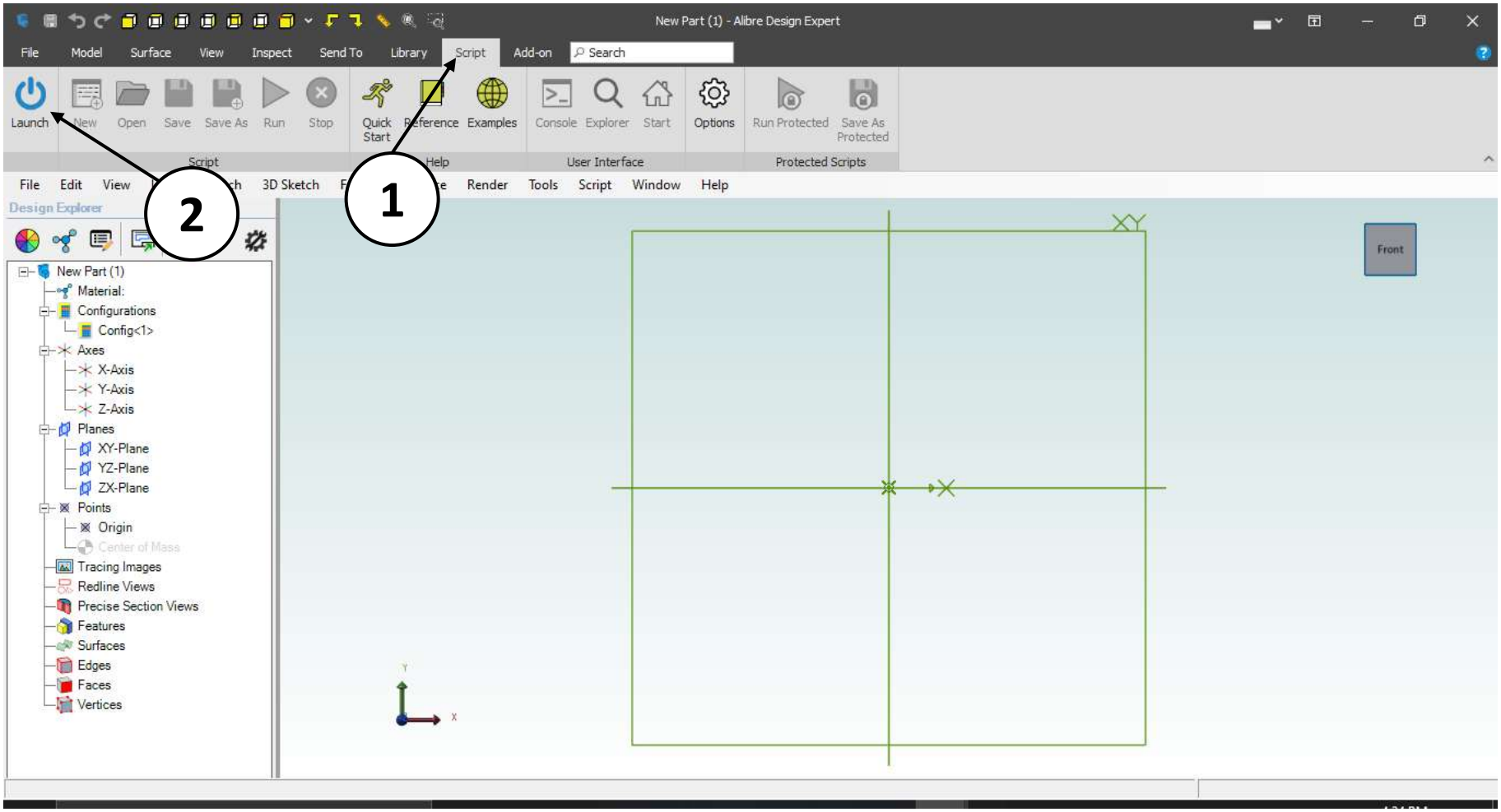
Using the Script interface



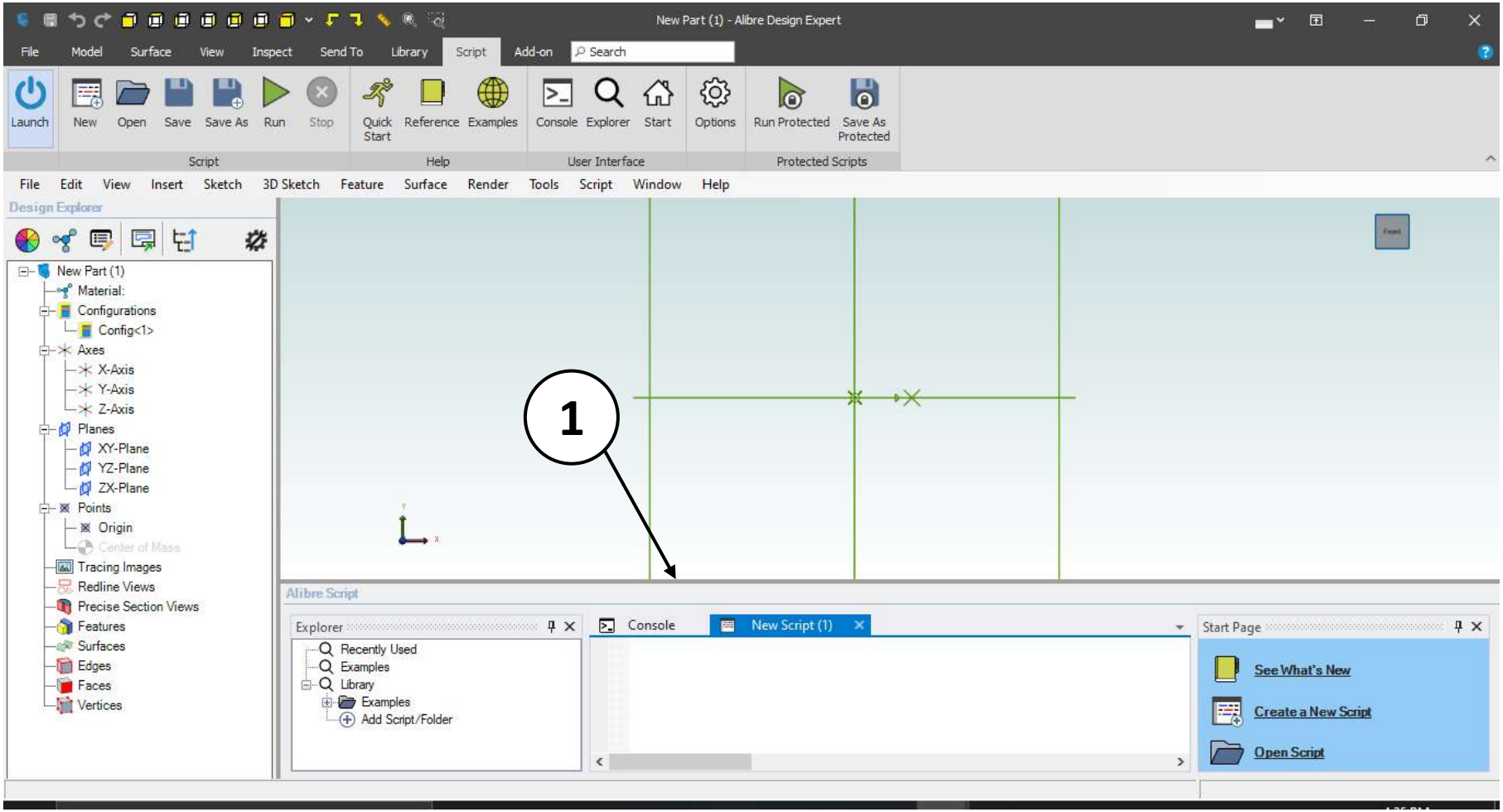
alibre
www.alibre.com



1. Open a new **Part** workspace from Alibre Design's **Home** window.

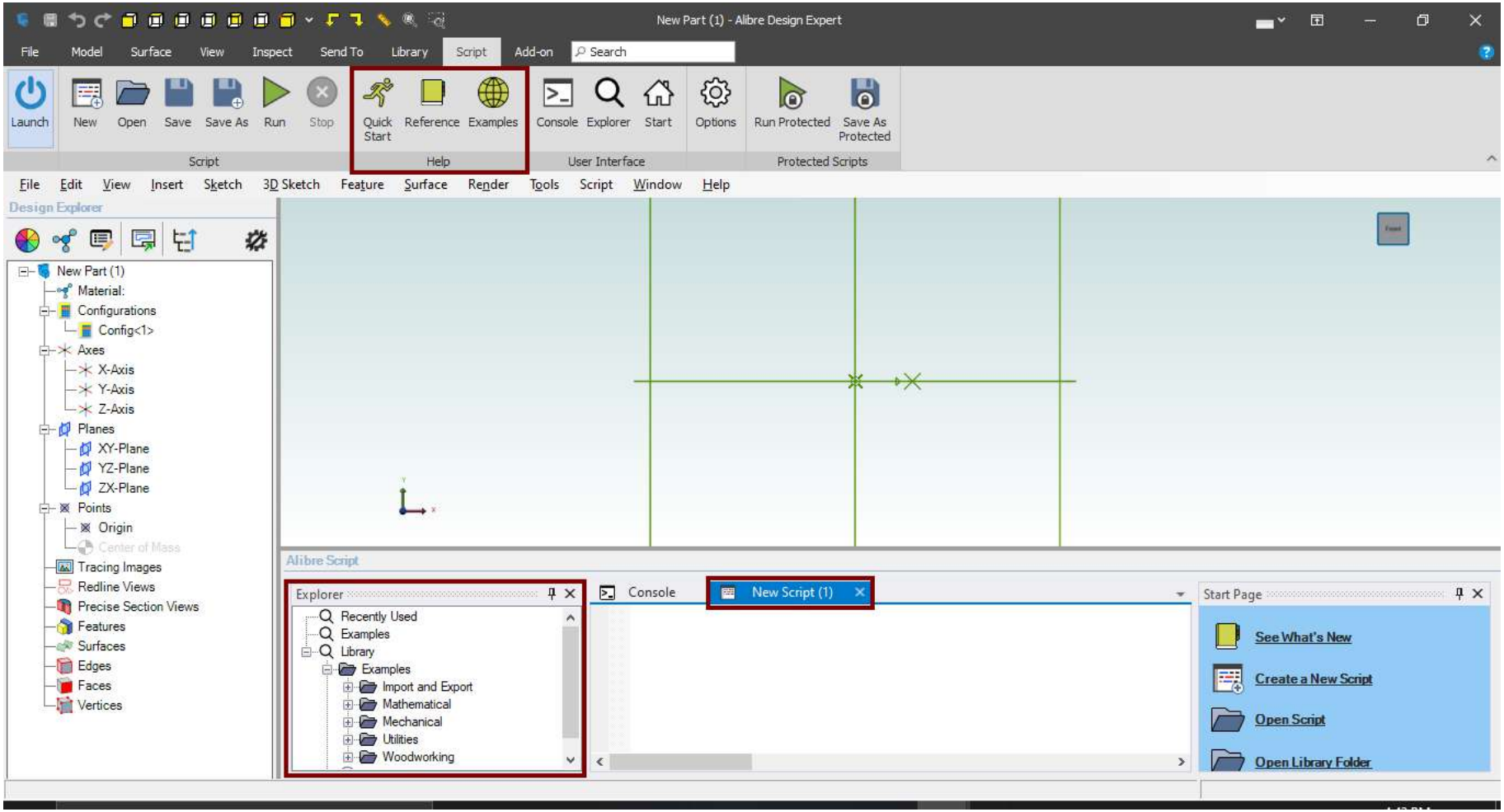


1. Click on the **Alibre Script** Tab.
2. Click **Launch**

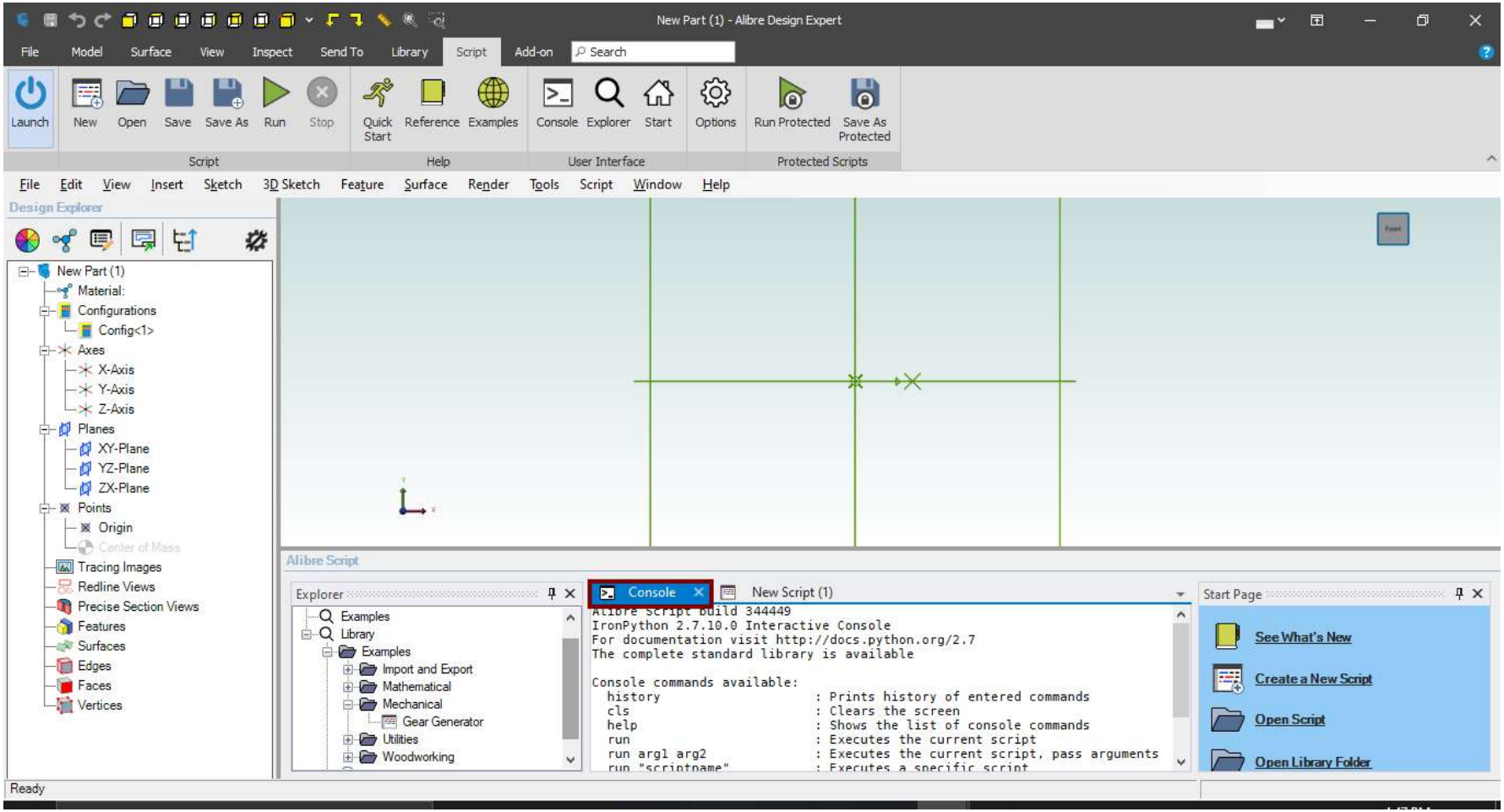


1. Click and drag to readjust the script window as desired

A few words on the User Interface



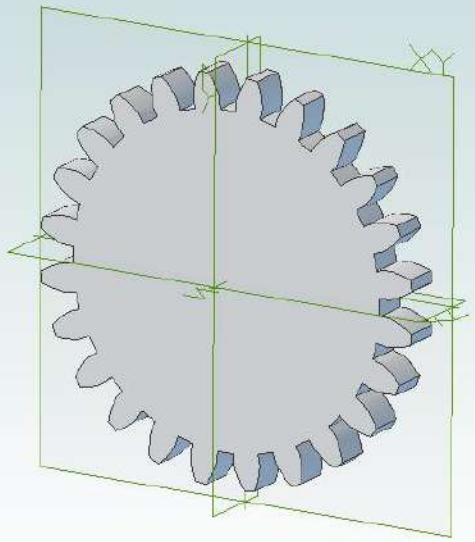
New Script window - the entry field for your Python script
Explorer - includes recently used files and example scripts
Quick Start, Reference and **Example** materials links in the **Help** section on the ribbon

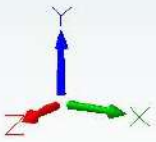


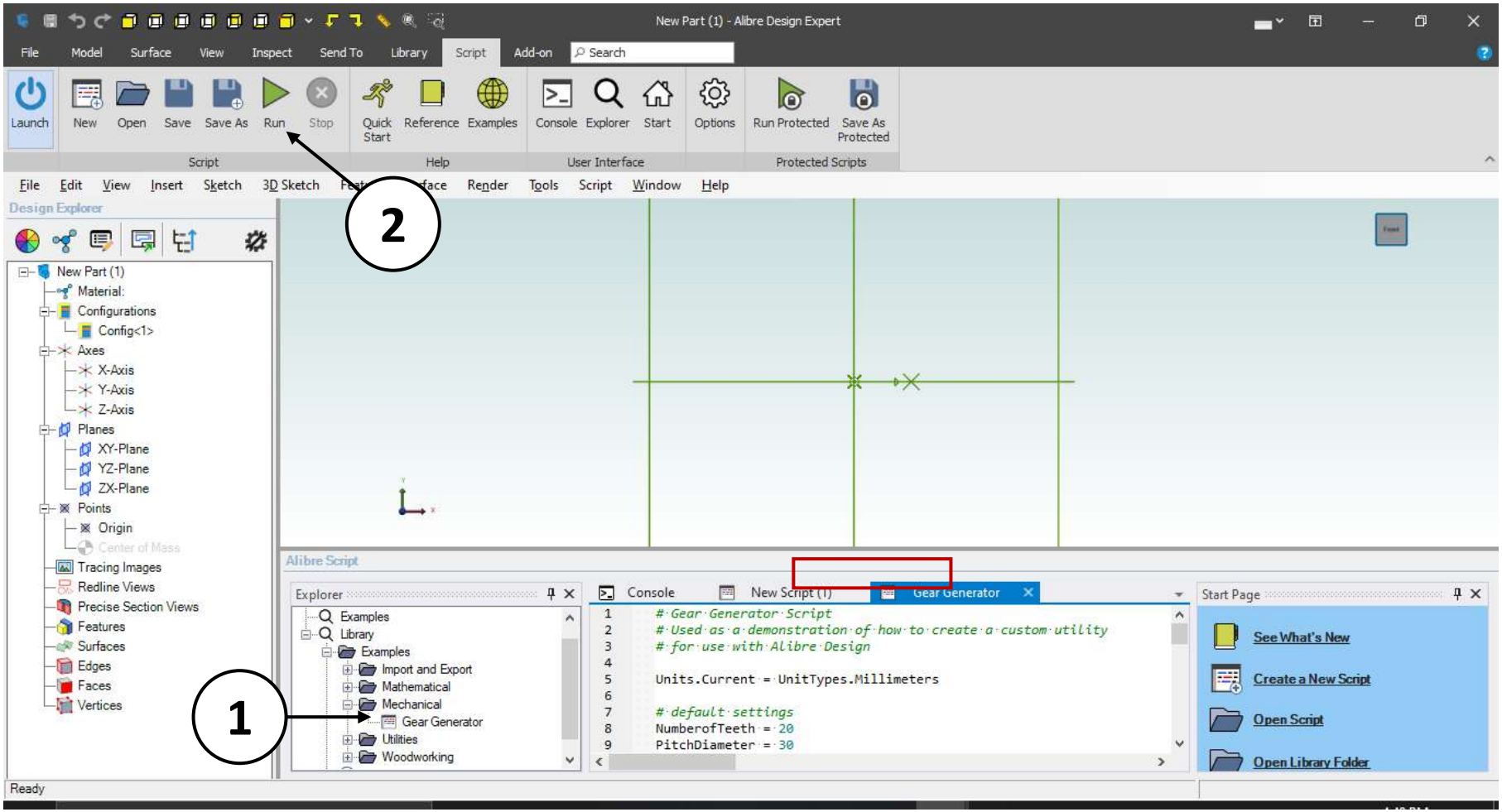
Console Tab - script feedback/output window

Gear Generator Example

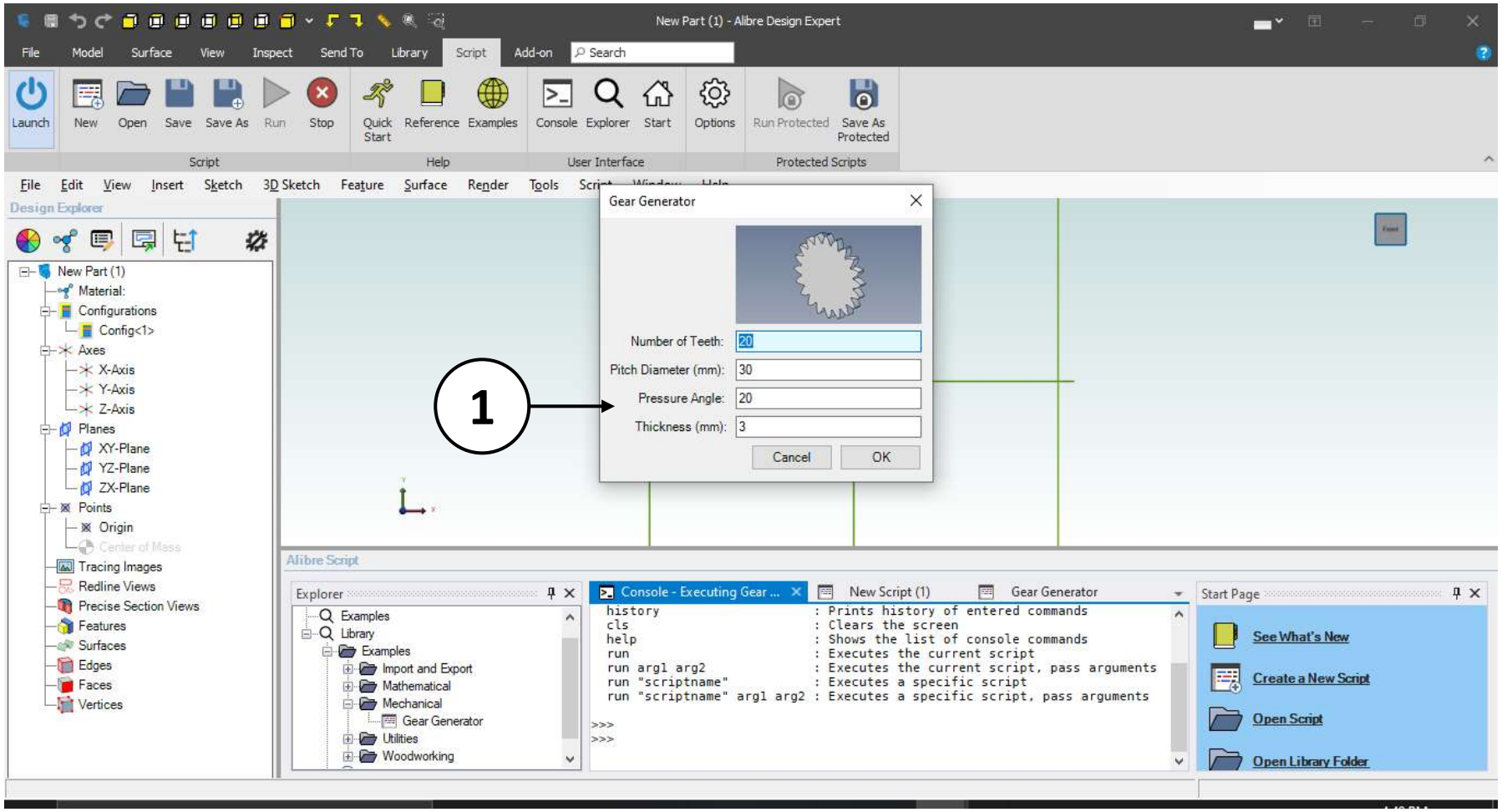
Running a script to produce a gear





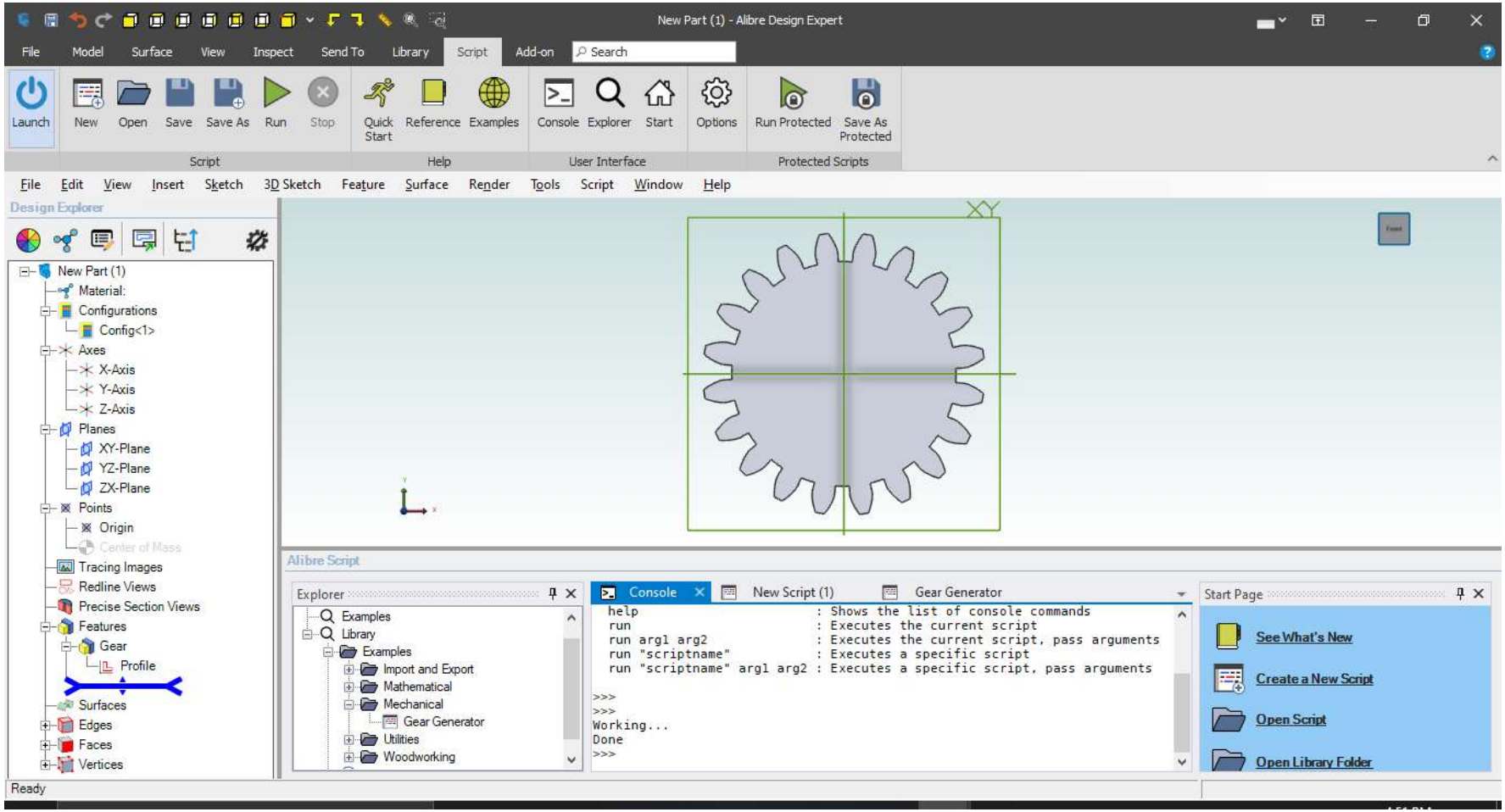


1. Click on the **Gear Generator** example in the **Explorer**. Notice that the **Gear Generator** script opens in the scripting window.
2. Now click "Run".



This script incorporates a small User Interface for parameter input. You can also program UI's into your own scripts.

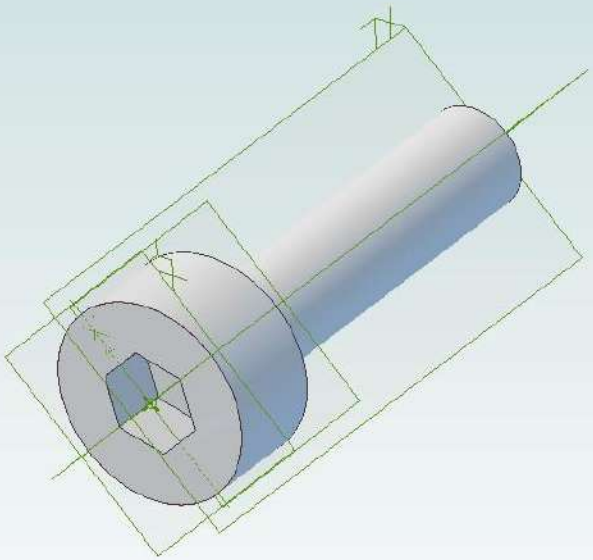
1. Input your desired parameters into the fields provided, and then click "OK".

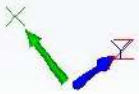


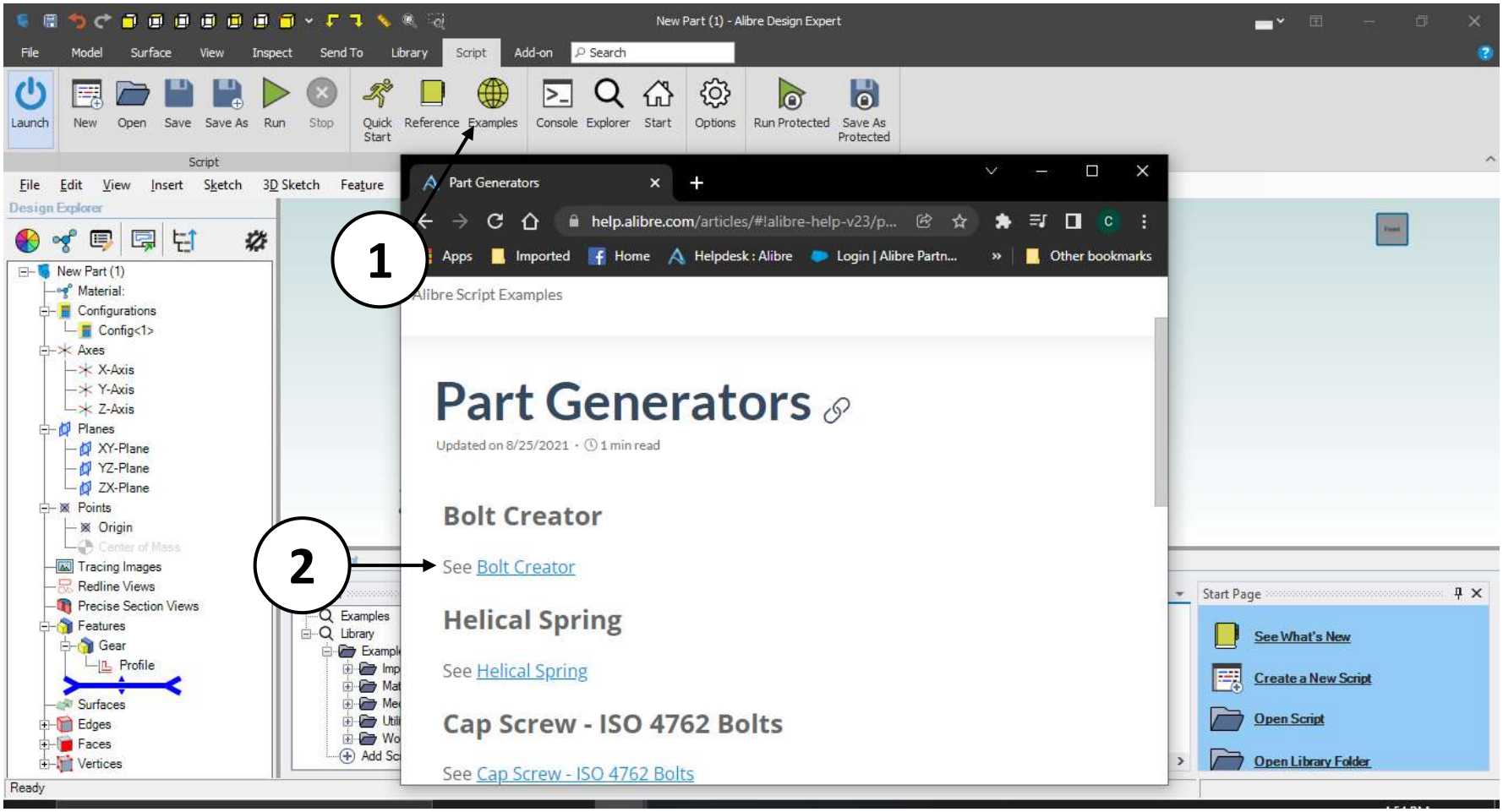
The gear **Sketch** and **Extrusion** will be generated automatically.

Bolt Generator Example

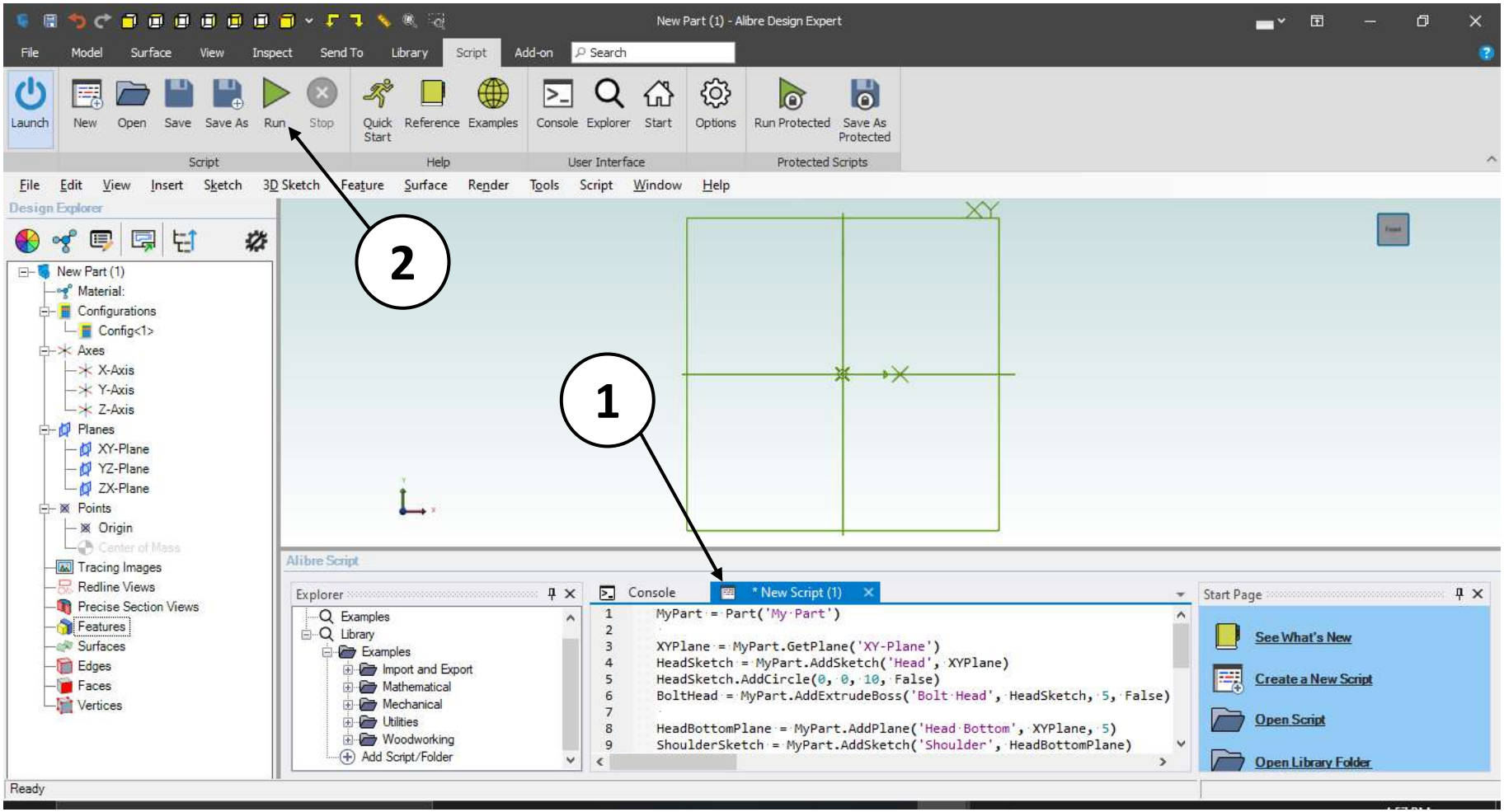
Running a script to produce a bolt



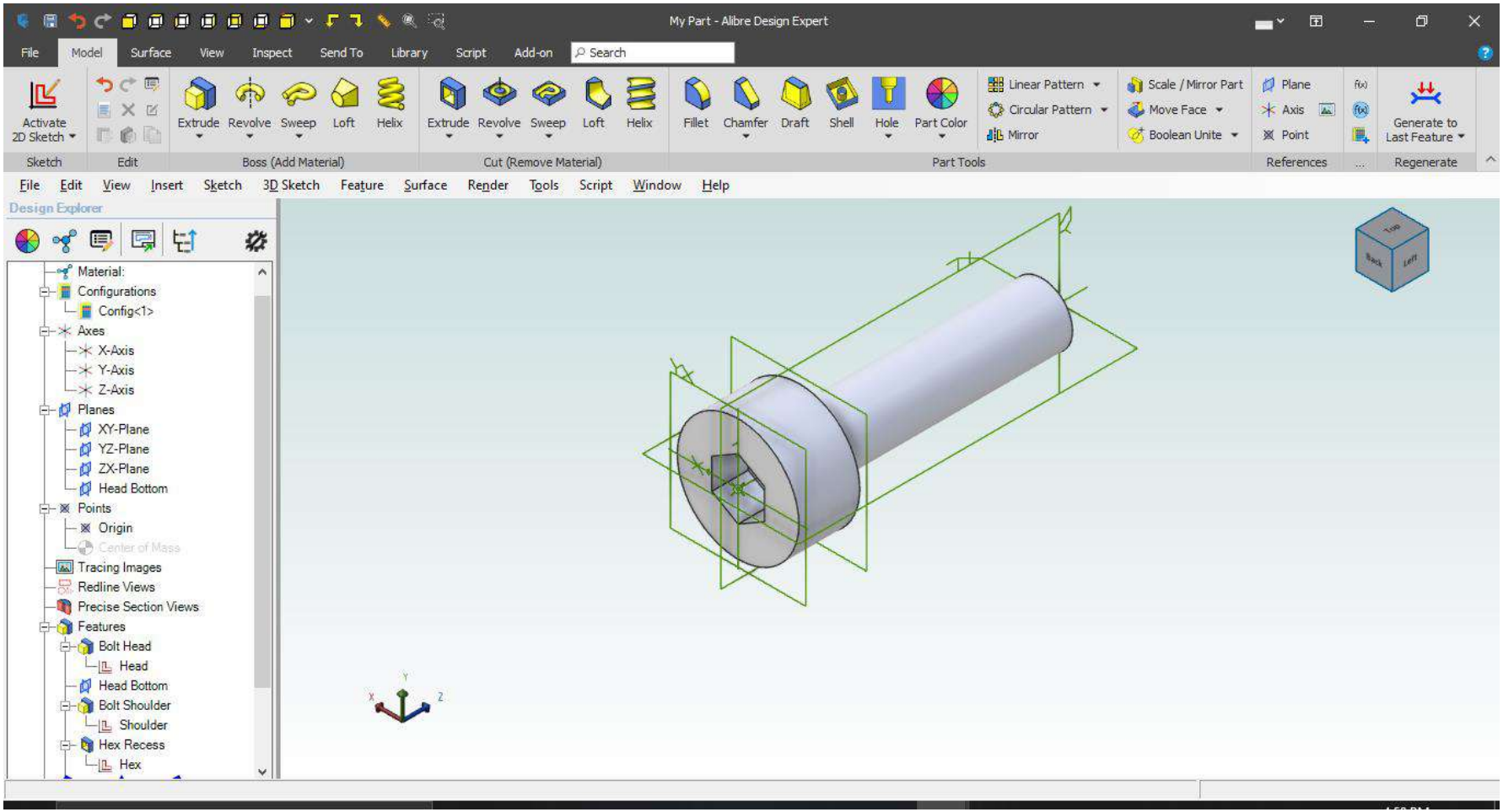




1. Click on **Examples** on the **Alibre Script** tab.
2. When the web page opens, under the **Part Generators** header, click on **Bolt Creator**.

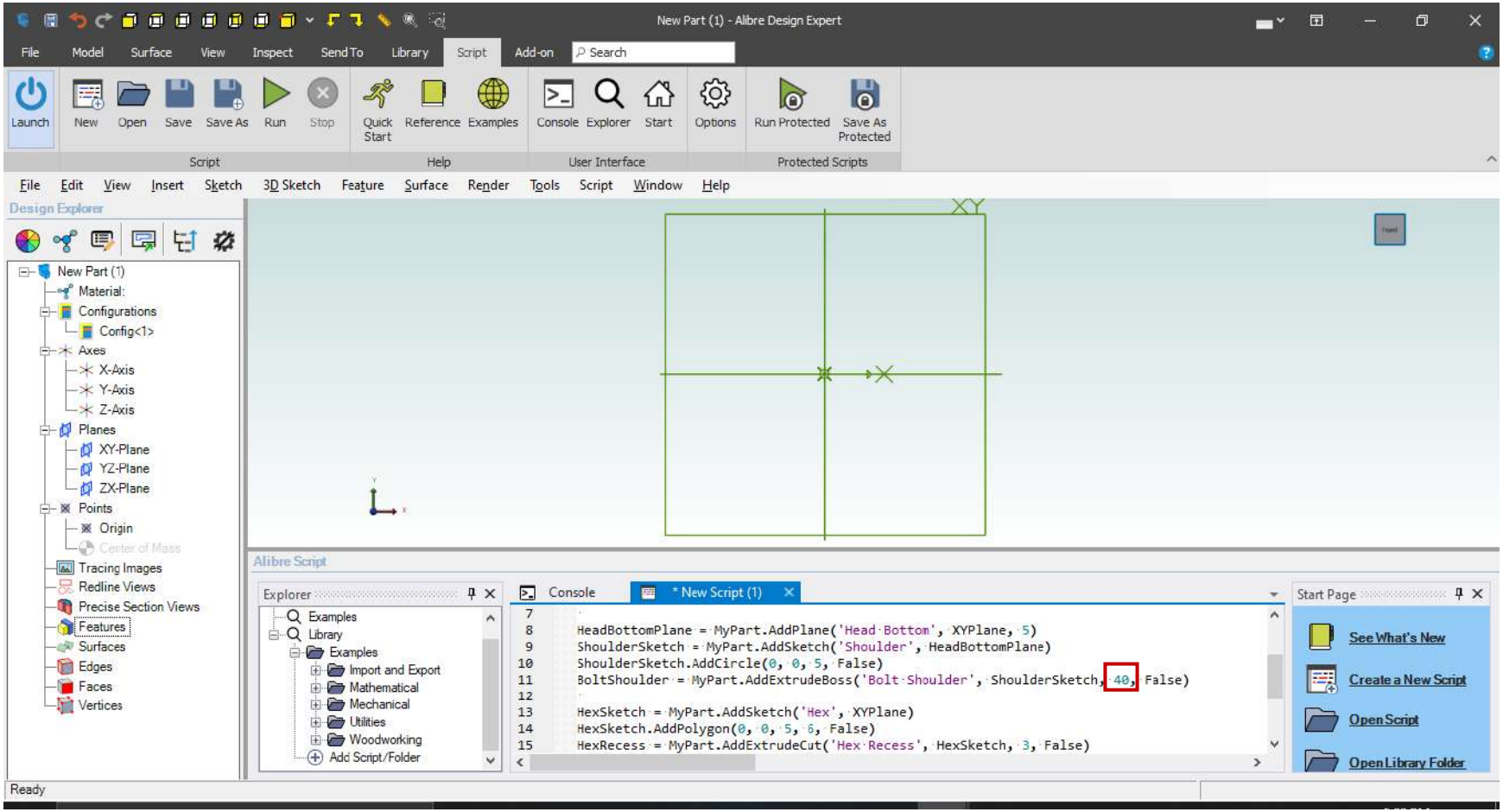


1. Copy and paste the **Bolt Creator** script into a **New Script** window
2. Click **Run.**



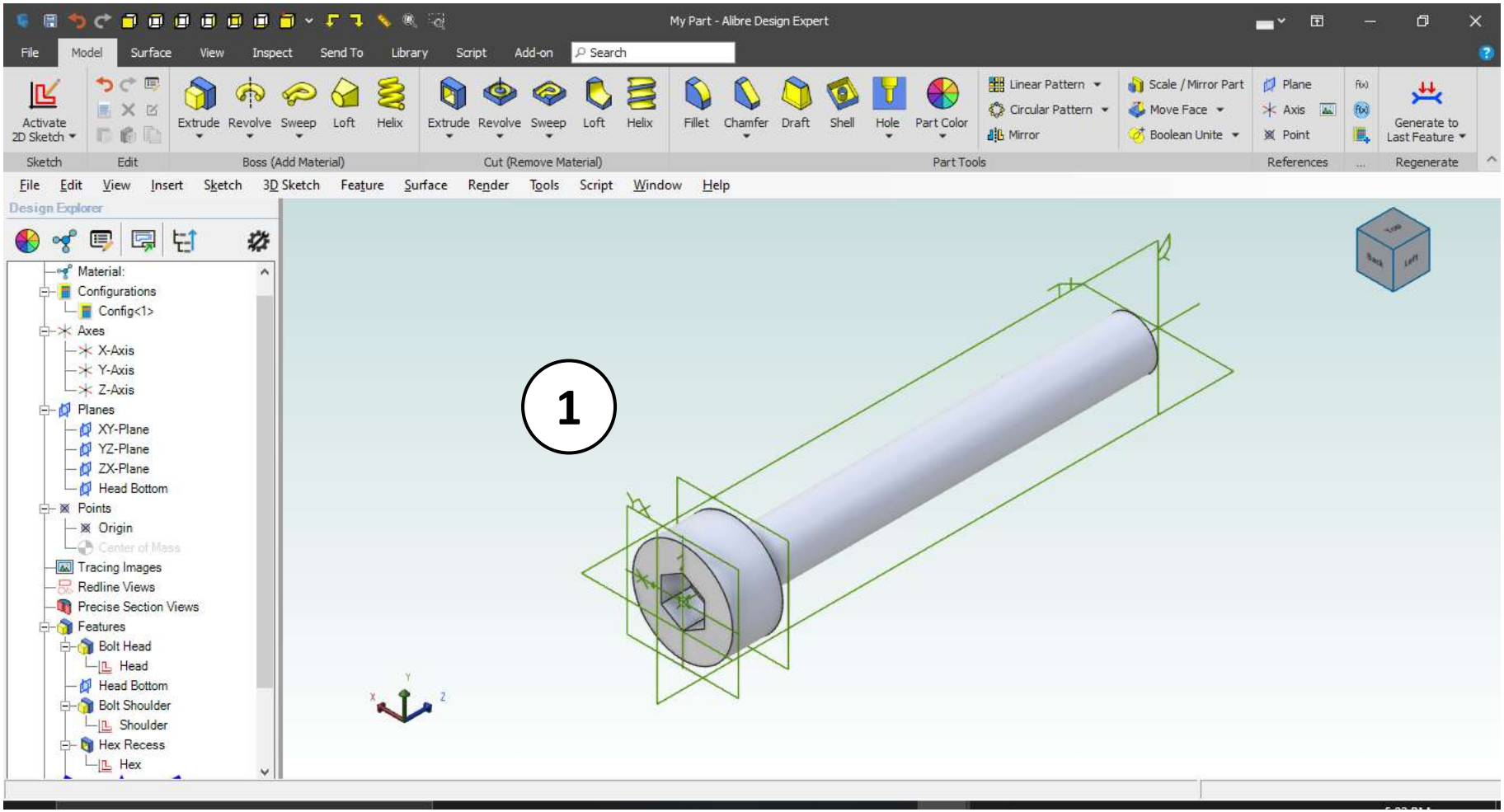
The Bolt **Sketches** and **Extrude** features will be generated automatically in a new window.

Editing the Bolt Parameters



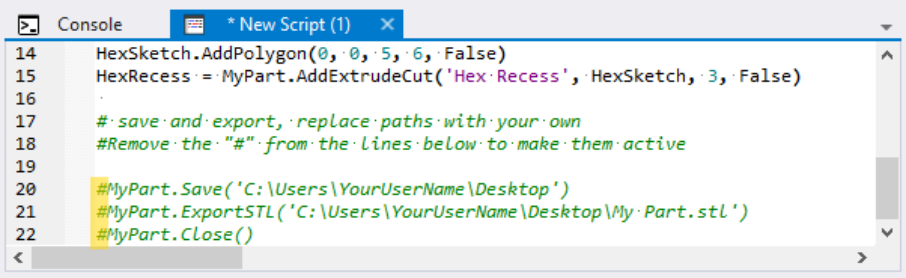
In the **Bolt Creator** script, lines 5, 6, 10, 11, 14, and 15 all hold values associated with the **Bolt Head**, **Bolt Shoulder**, and **Hex** parameters.

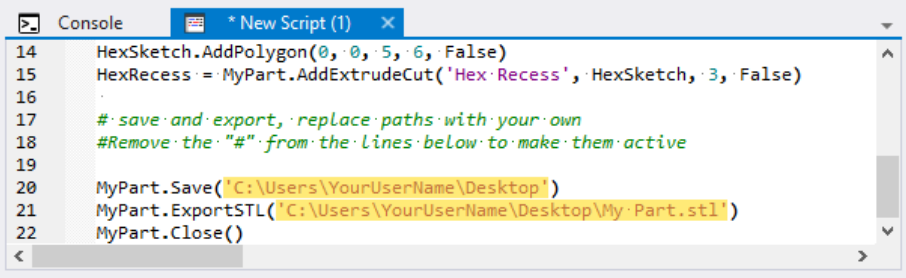
Manually change some of these values and re-run the script to see changes in the bolt output (*In the image above, the bolt shoulder extrusion length has been changed to a value of "40")



1. Confirm results of your parameter changes to the **Bolt Creator** script (Example image above shows results of **Bolt** with **Shoulder Extrusion** parameter changed to 40).

Save and Export the Results





Lines 20-22 of the script provide options to **Save** the part file, **Export** the part file to **STL** format, and **Close** the workspace after the bolt has been generated.

To do the above mentioned just remove the "comment out" marks (delete the "#" symbols) at the beginning of those lines and edit the directory paths so that they reflect directory paths currently present on your computer. Then re-run the script.

This concludes the Tutorial