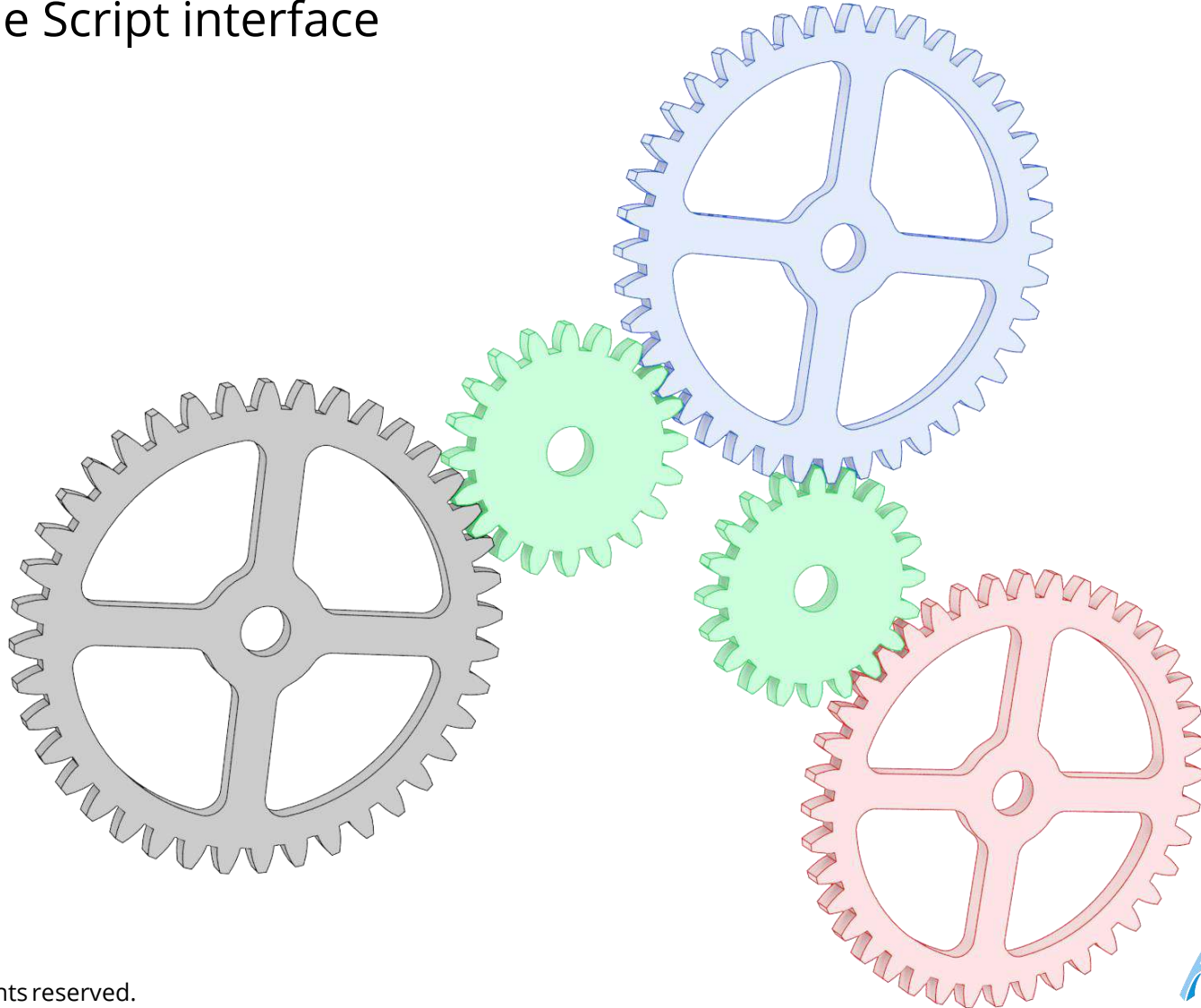
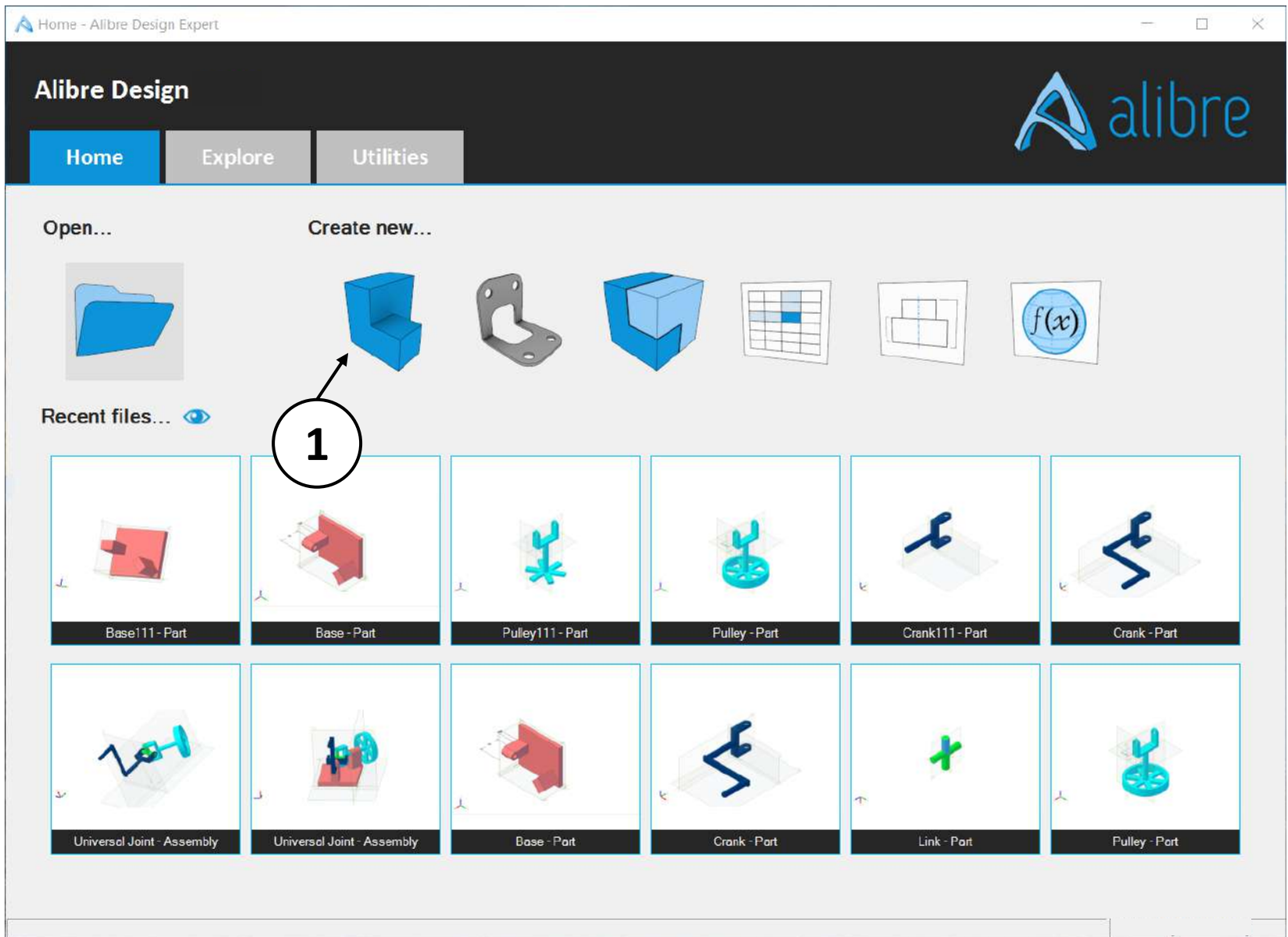


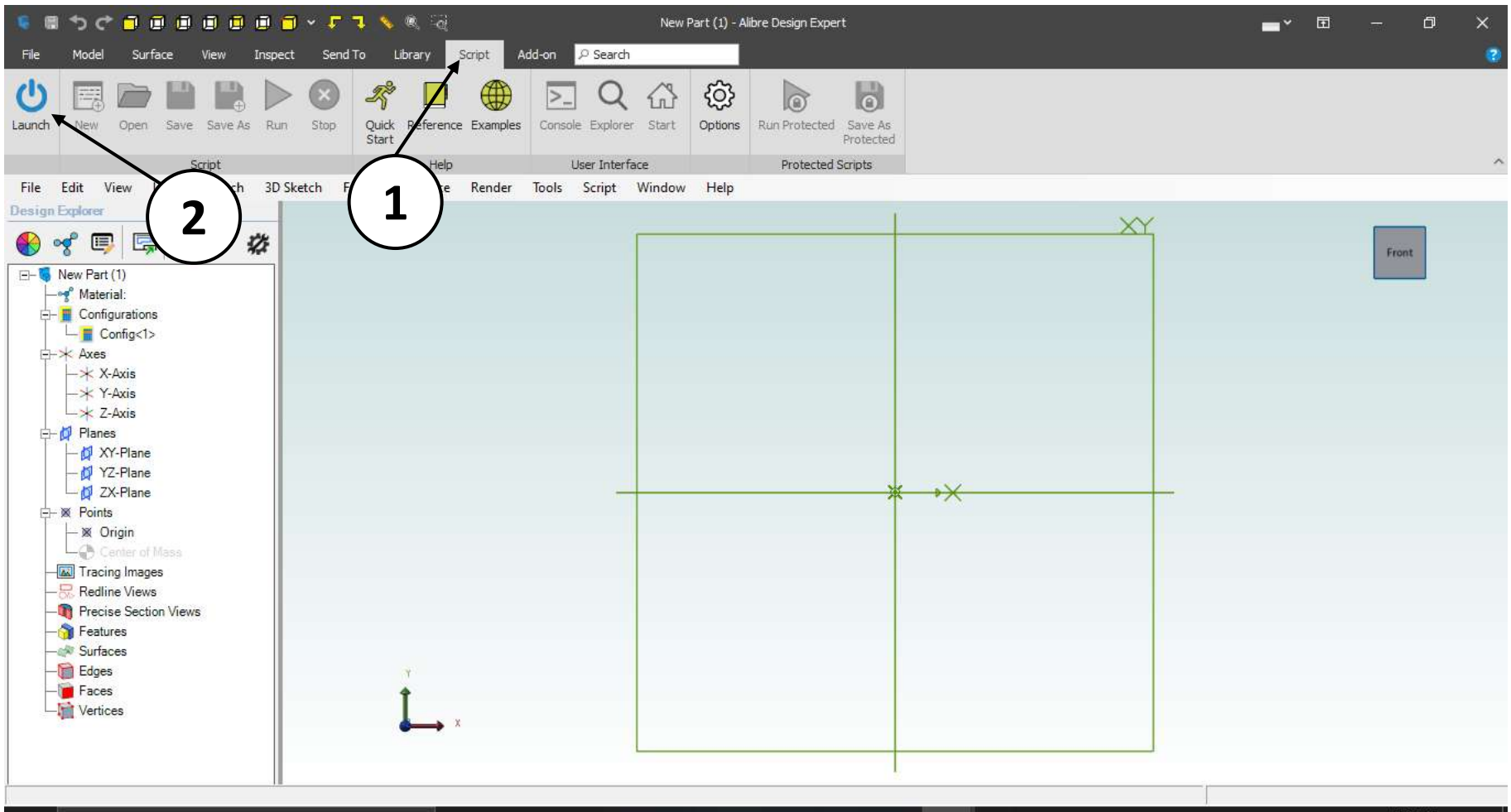
Alibre Script Getting Started

Using the Script interface

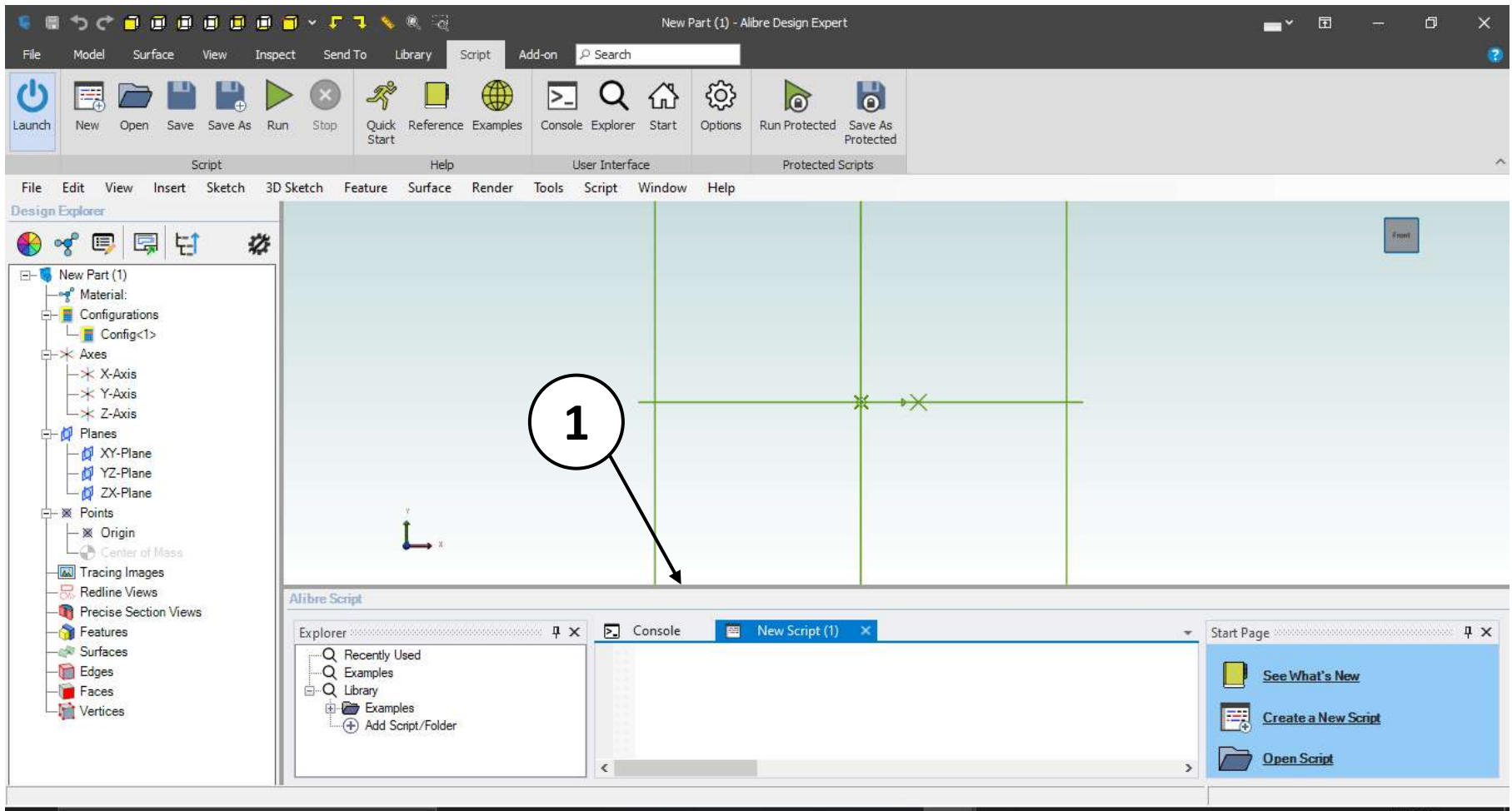




1. Open a new **Part** workspace from Alibre Design's **Home** window.

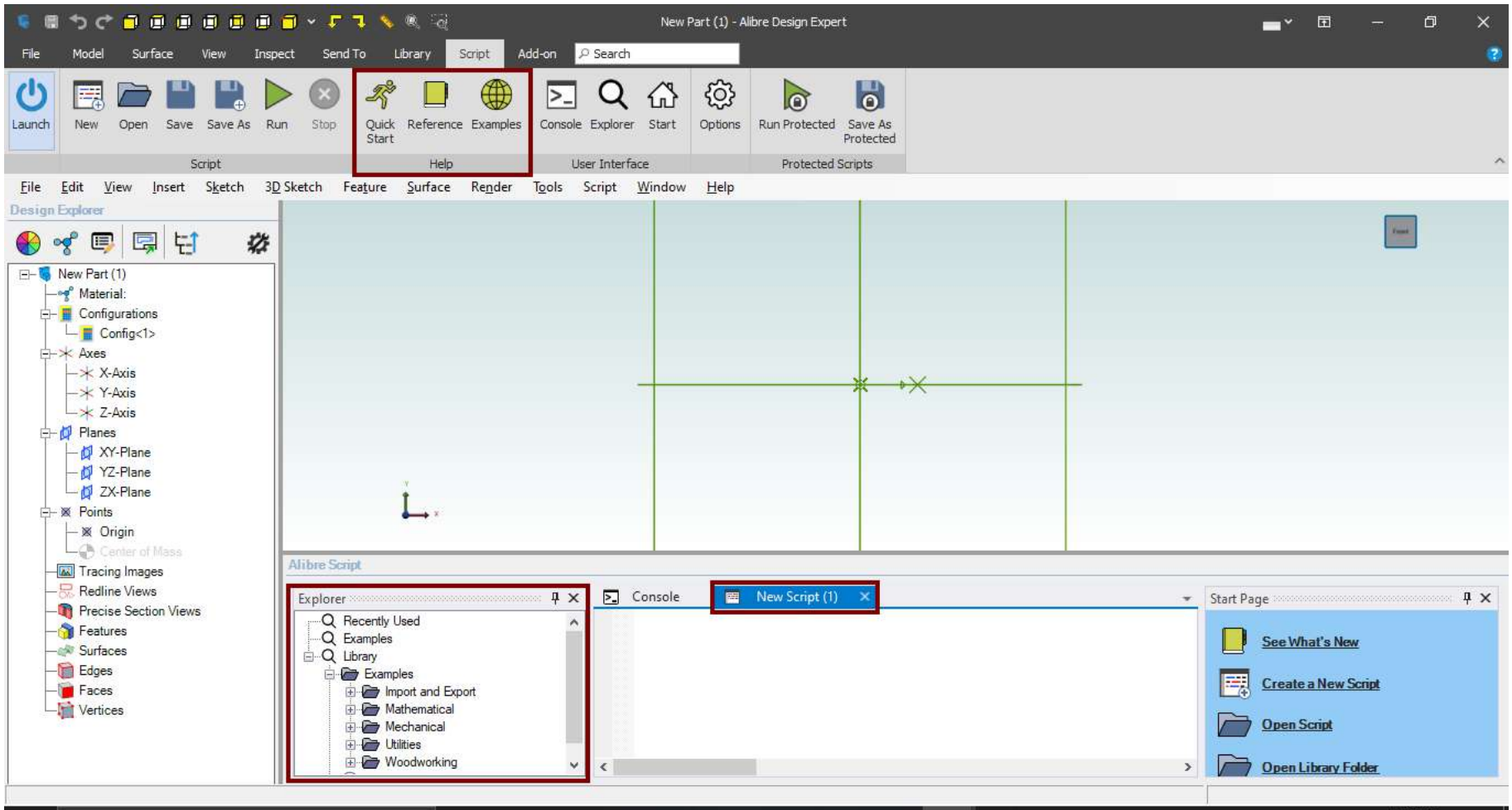


1. Click on the **Alibre Script Tab**.
2. Click **Launch**



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

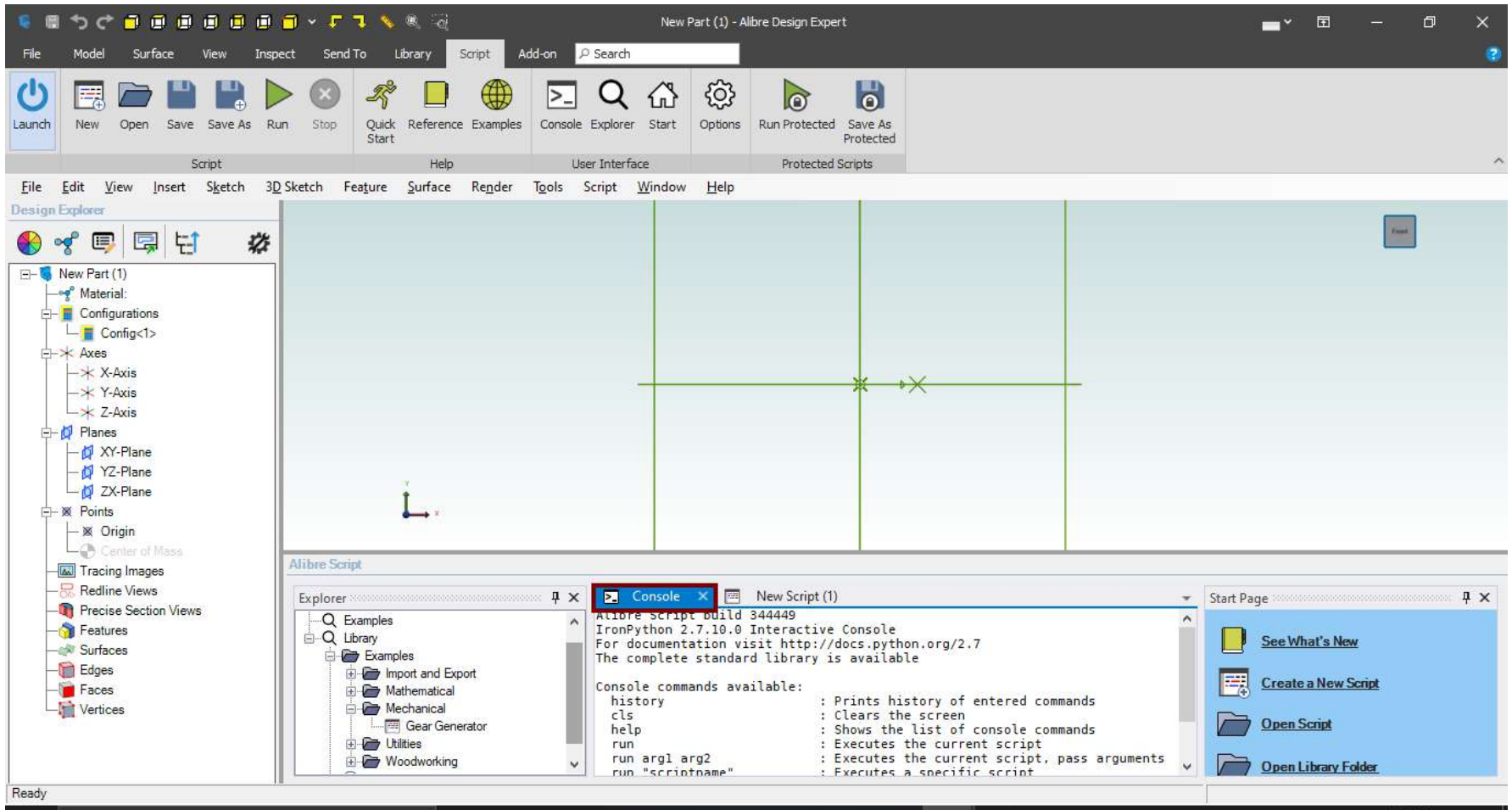
A few words on the User Interface



New Script window - the entry field for your Python script

Explorer - includes recently used files and example scripts

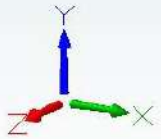
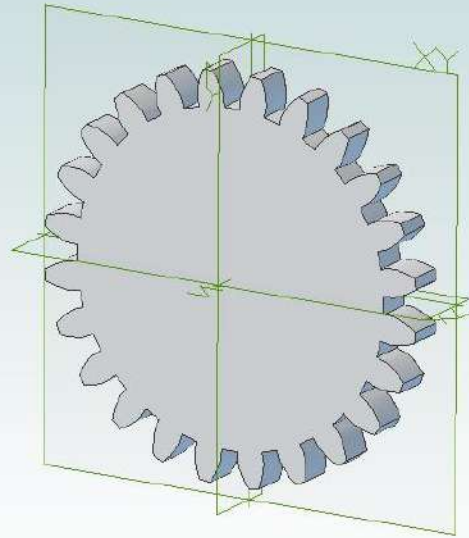
Quick Start, Reference and Example materials links in the **Help** section on the ribbon

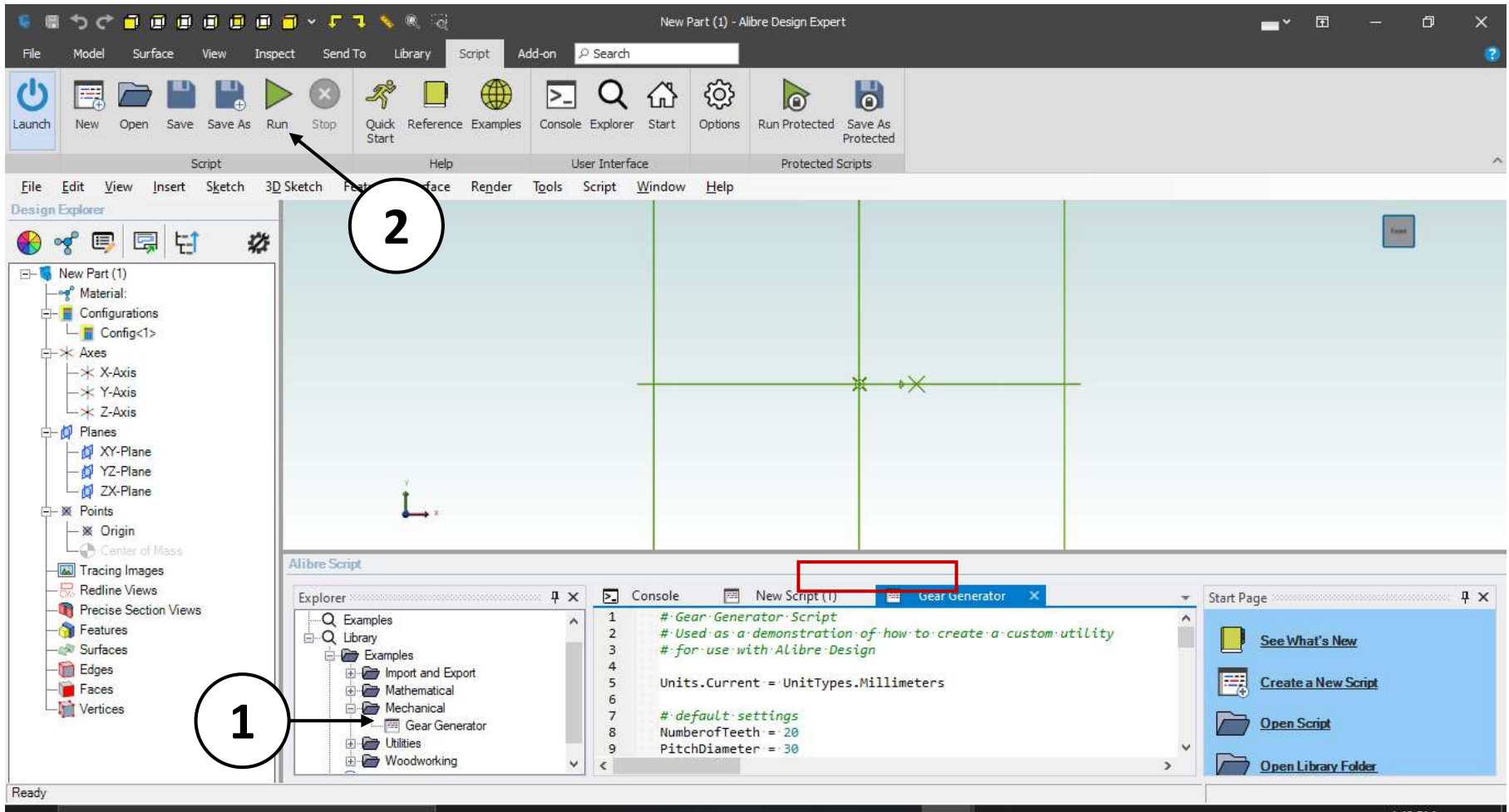


Console Tab - script feedback/output window

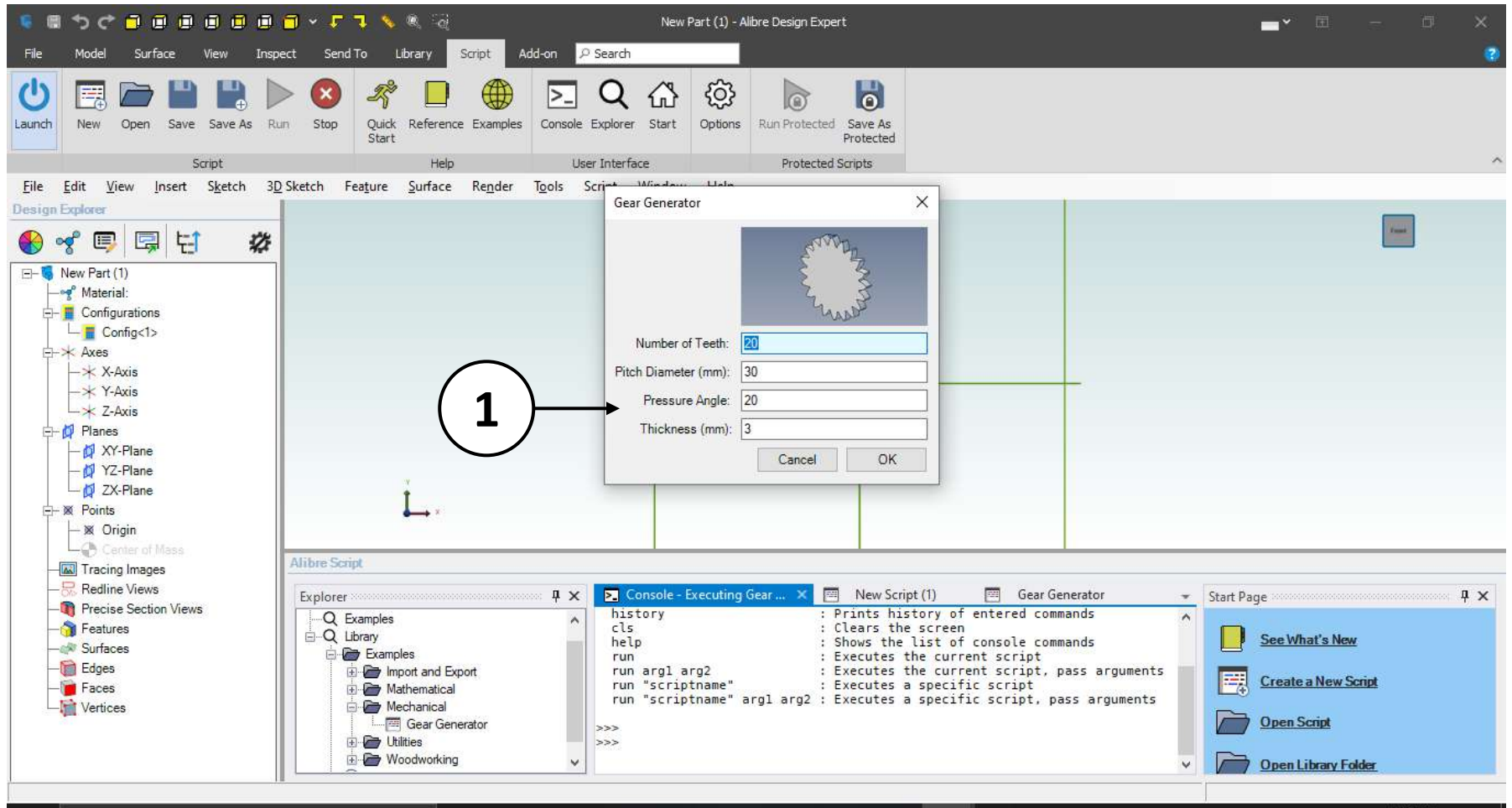
Gear Generator Example

Running a script to produce a gear



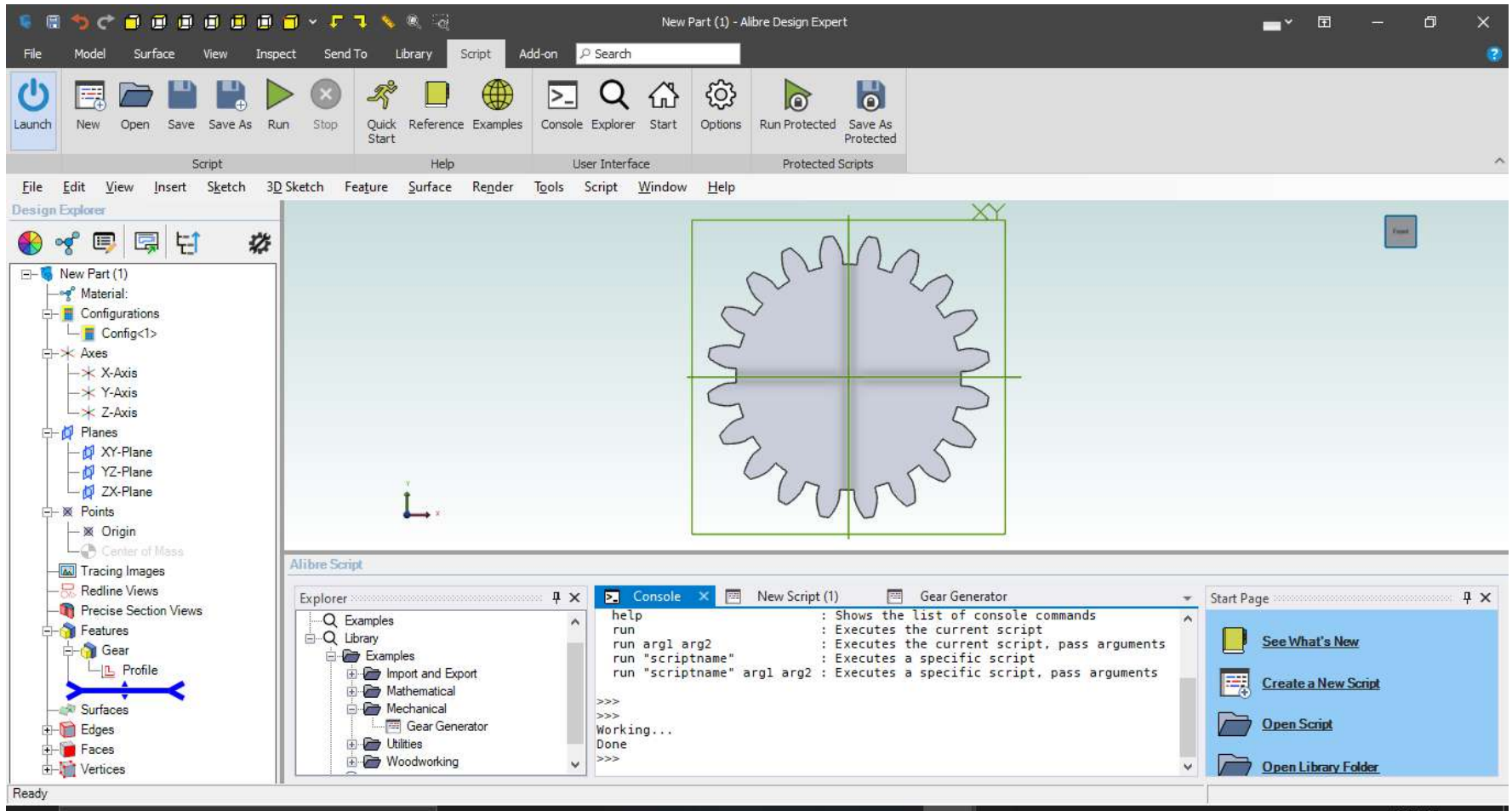


1. Click on the **Gear Generator** example in the **Explorer**. Notice that the **Gear Generator** script opens in the scripting window.
2. Now click "Run".



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

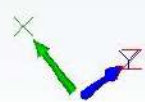
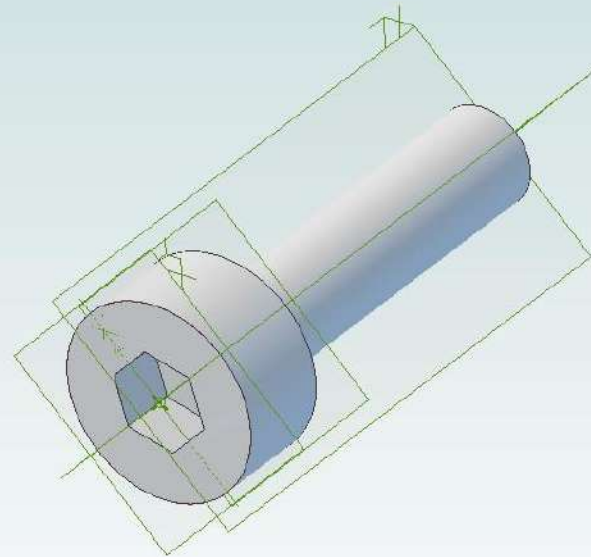
1. Input your desired parameters into the fields provided, and then click "OK".

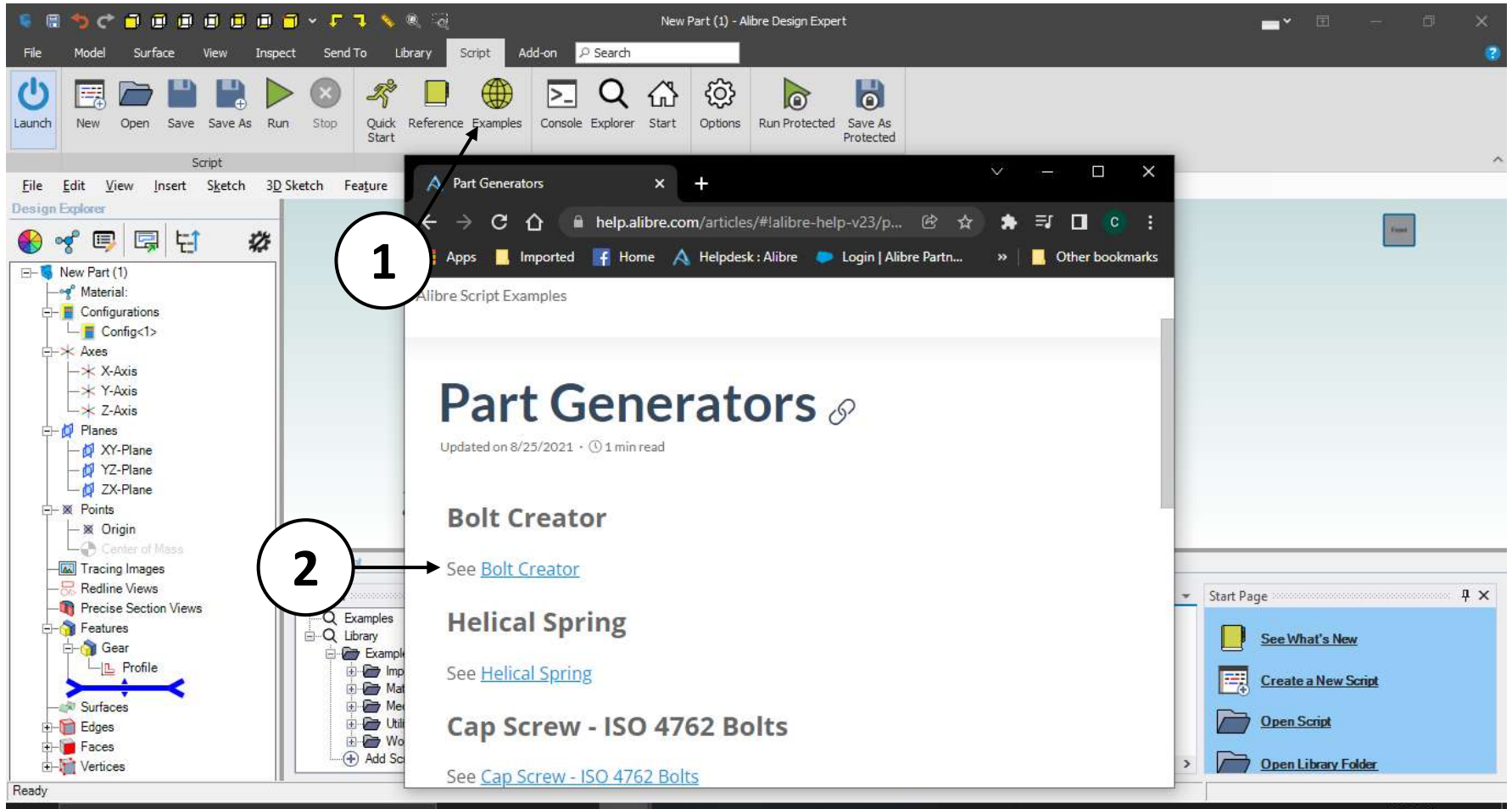


The gear **Sketch** and **Extrusion** will be generated automatically.

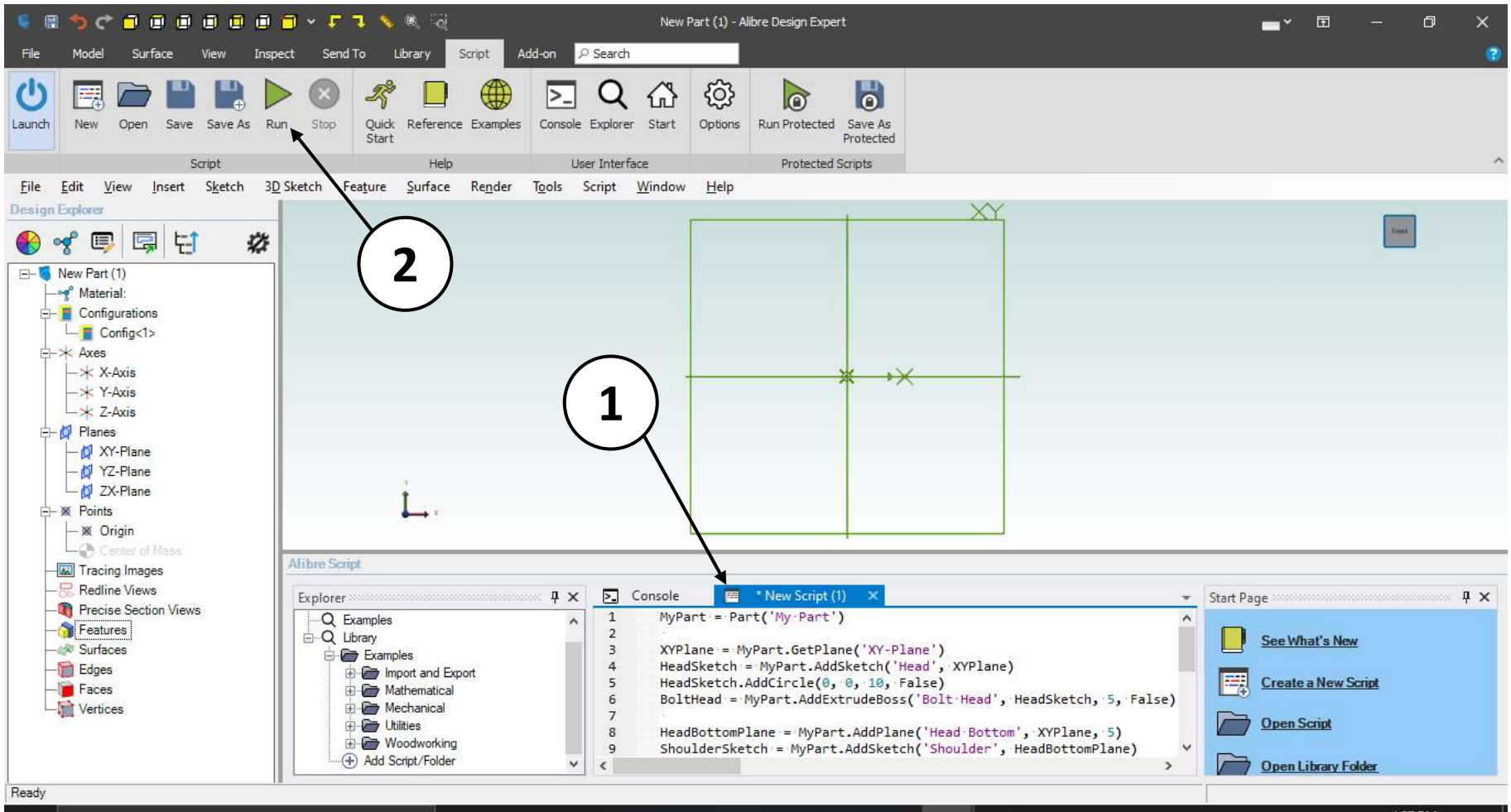
Bolt Generator Example

Running a script to produce a bolt

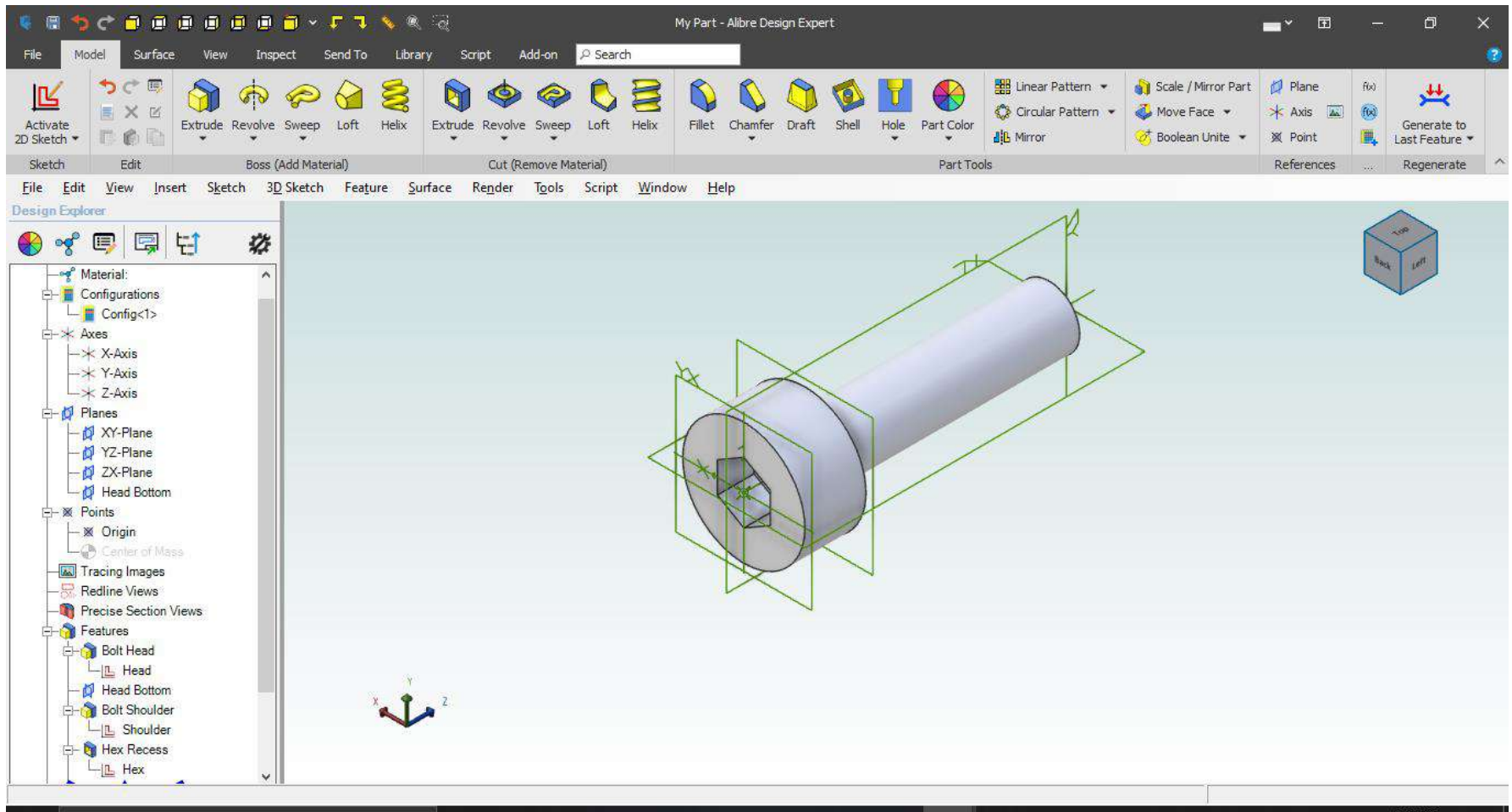




1. Click on **Examples** on the **Alibre Script** tab.
2. When the web page opens, under the **Part Generators** header, click on **Bolt Creator**.

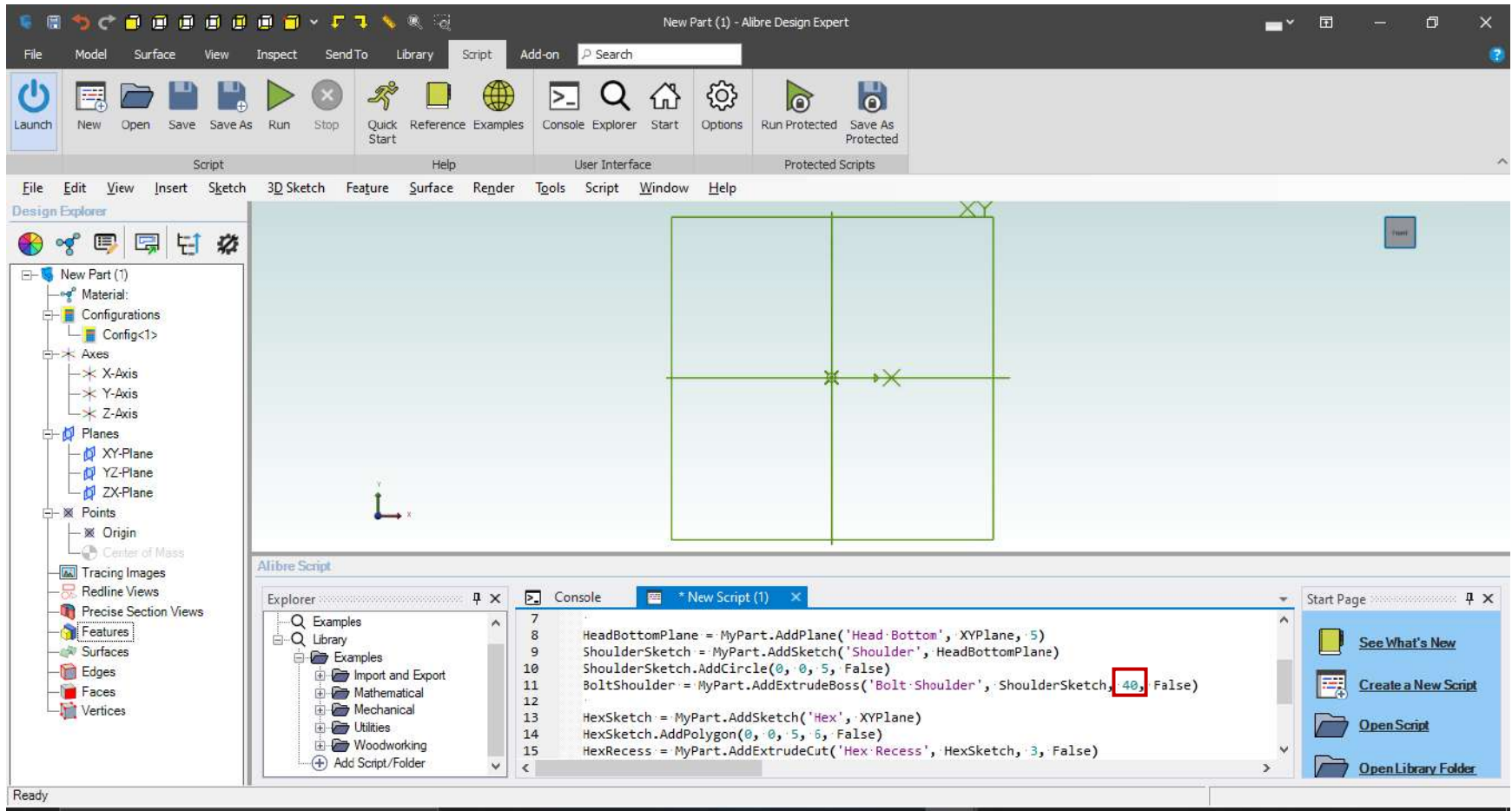


1. Copy and paste the **Bolt Creator** script into a **New Script** window
2. Click **Run**.



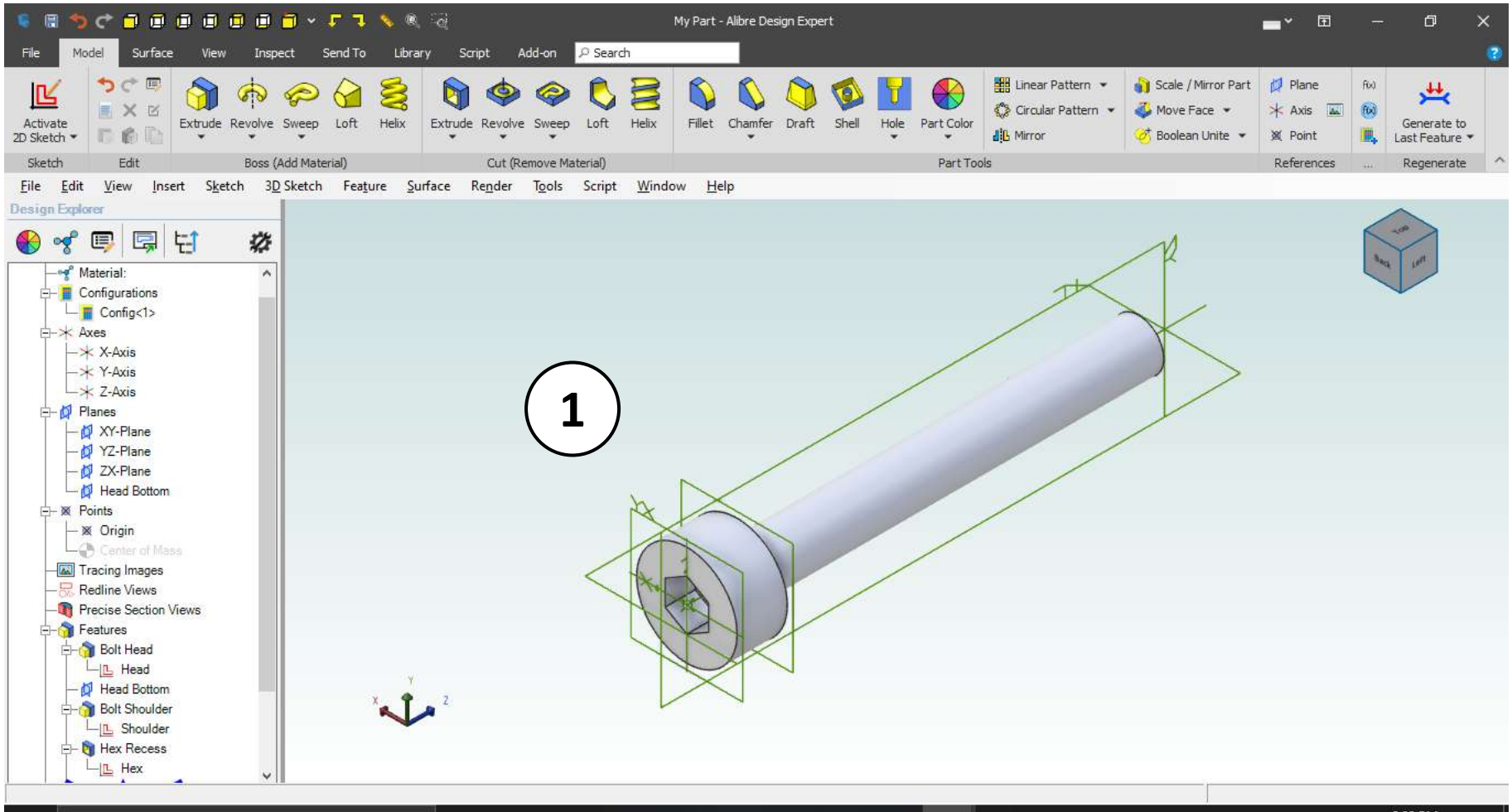
The Bolt **Sketches** and **Extrude** features will be generated automatically in a new window.

Editing the Bolt Parameters



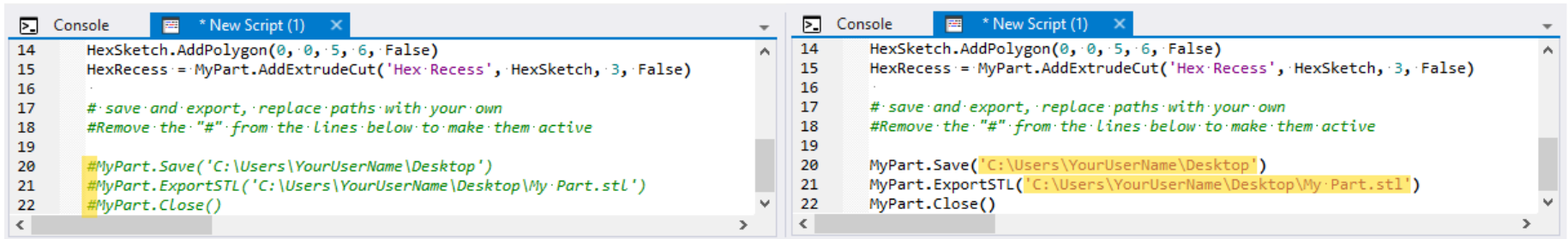
In the **Bolt Creator** script, lines 5, 6, 10, 11, 14, and 15 all hold values associated with the **Bolt Head**, **Bolt Shoulder**, and **Hex** parameters.

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



The image shows two side-by-side screenshots of a script editor window. The left screenshot shows the script with lines 20-22 commented out with '#' symbols. The right screenshot shows the same script but with the '#' symbols removed from lines 20-22, making them active code. The paths in the code are highlighted in yellow in the right screenshot.

```
14 HexSketch.AddPolygon(0, 0, 5, 6, False)
15 HexRecess = MyPart.AddExtrudeCut('Hex·Recess', HexSketch, 3, False)
16
17 #·save·and·export,·replace·paths·with·your·own
18 #Remove·the·"#·"·from·the·lines·below·to·make·them·active
19
20 #MyPart.Save('C:\Users\YourUserName\Desktop')
21 #MyPart.ExportSTL('C:\Users\YourUserName\Desktop\My·Part.stl')
22 #MyPart.Close()
```

```
14 HexSketch.AddPolygon(0, 0, 5, 6, False)
15 HexRecess = MyPart.AddExtrudeCut('Hex·Recess', HexSketch, 3, False)
16
17 #·save·and·export,·replace·paths·with·your·own
18 #Remove·the·"#·"·from·the·lines·below·to·make·them·active
19
20 MyPart.Save('C:\Users\YourUserName\Desktop')
21 MyPart.ExportSTL('C:\Users\YourUserName\Desktop\My·Part.stl')
22 MyPart.Close()
```

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