



電腦輔助設計與實習

期末小組簡報

成員：41223101 王妍方
41223104 袁儀瑄
41223105 許舒閑



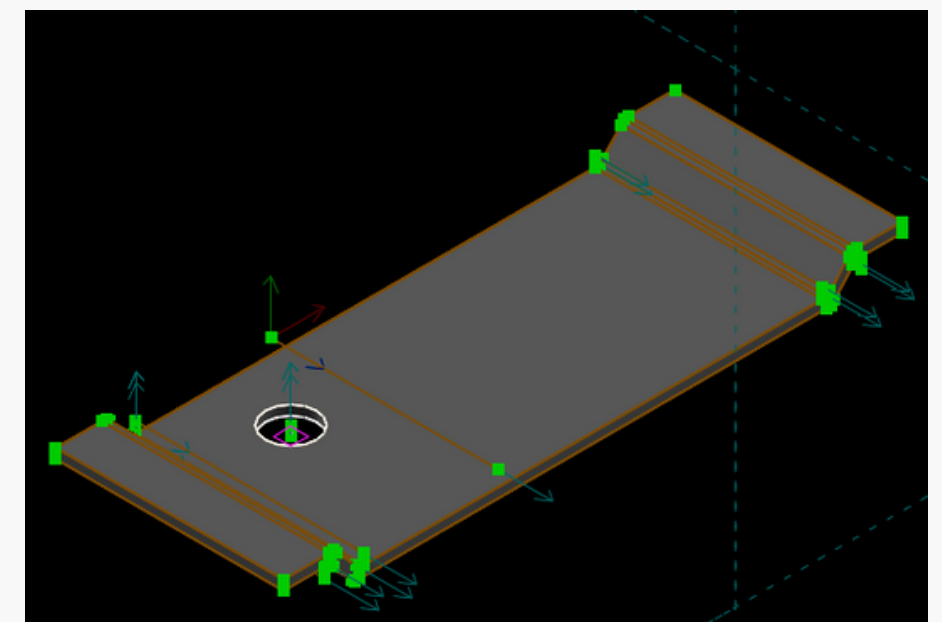
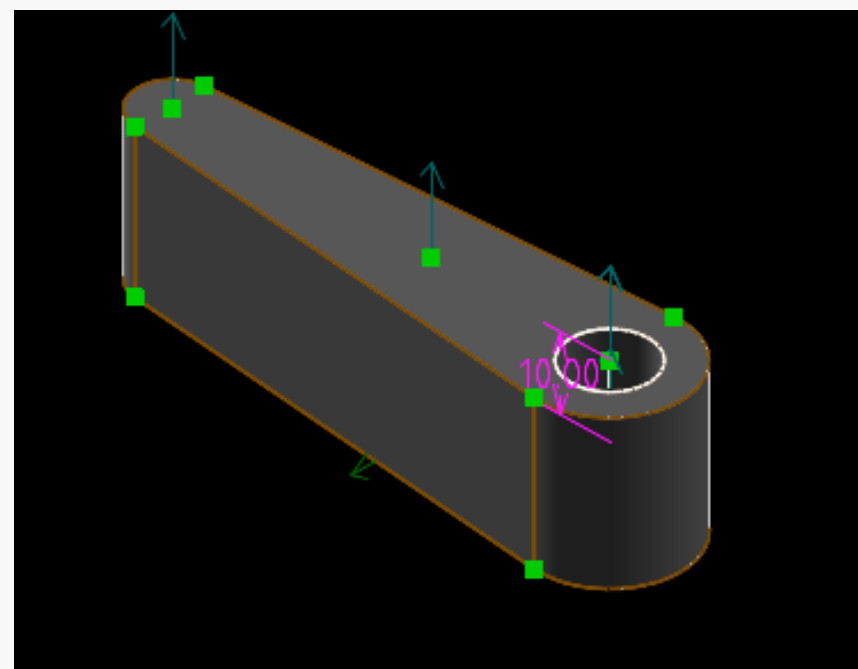
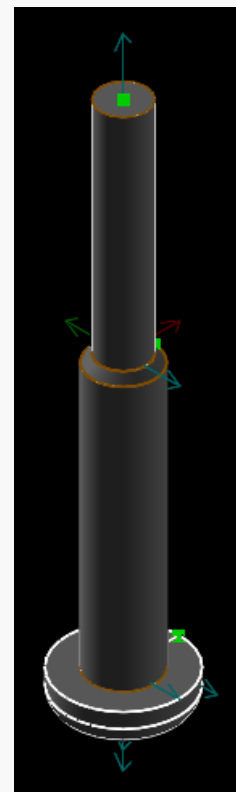
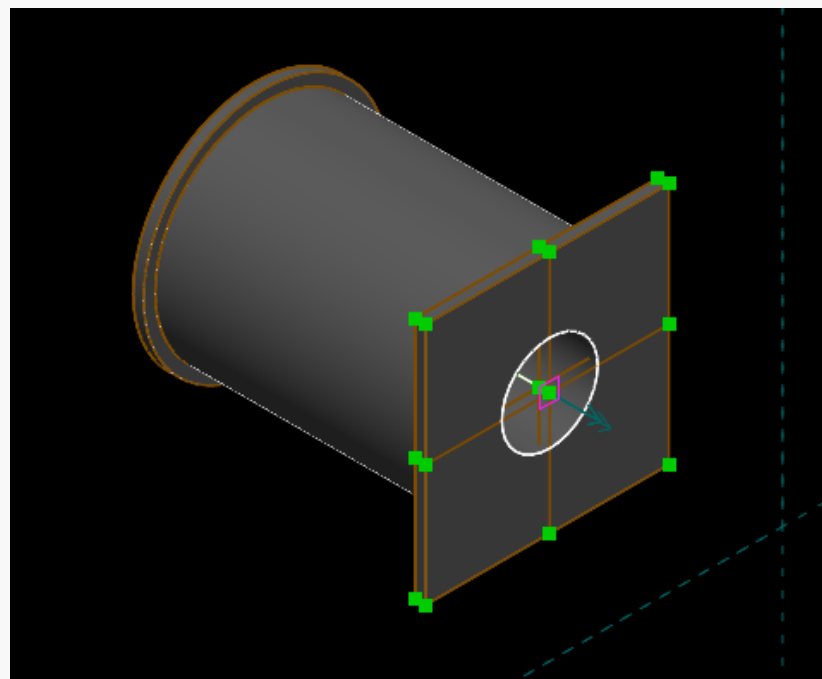
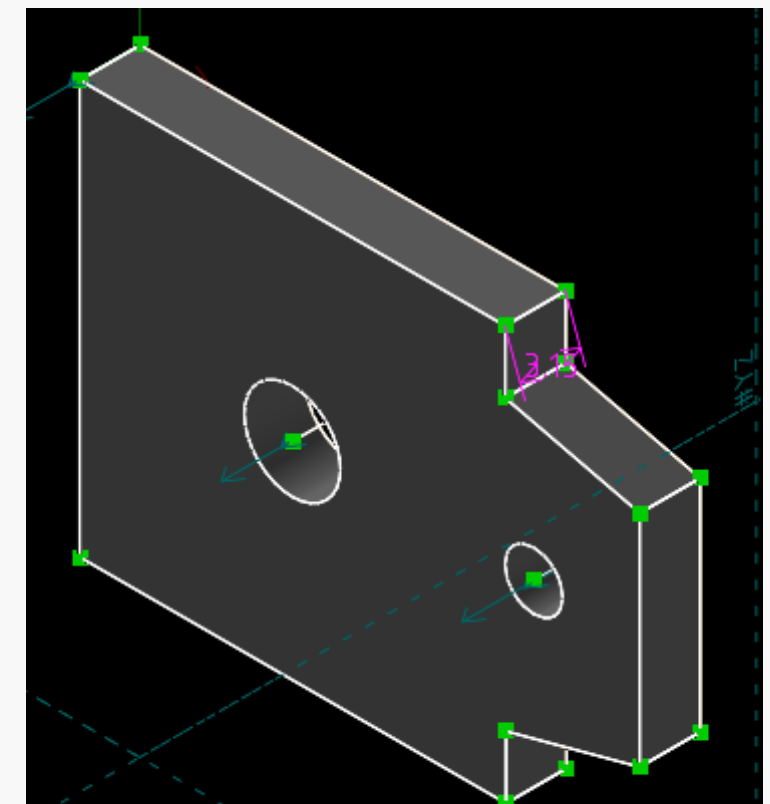
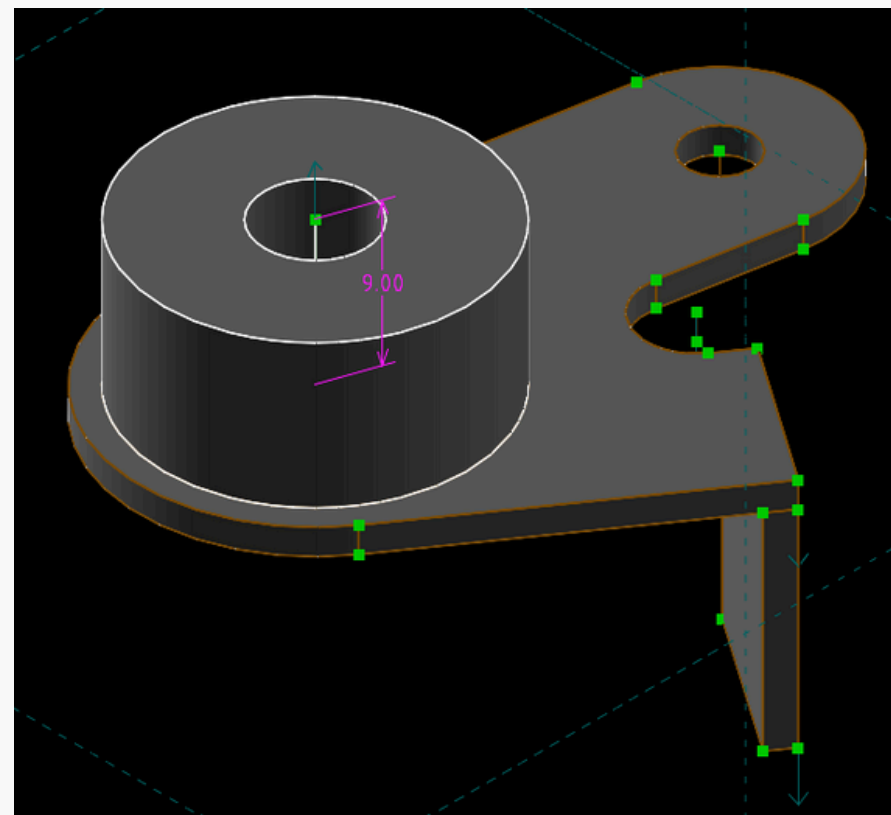
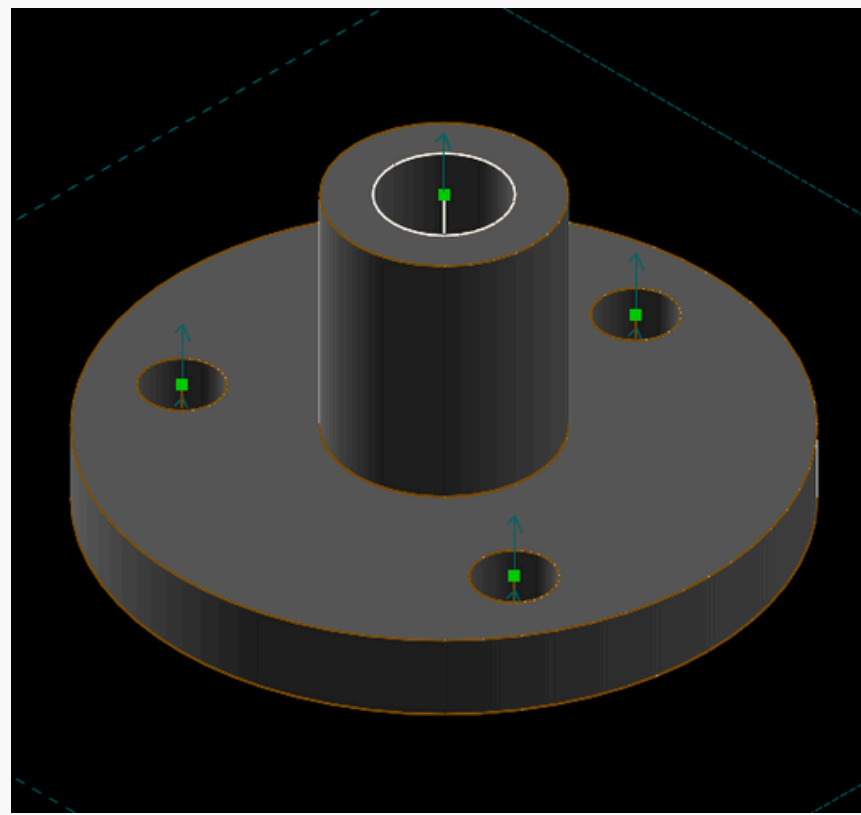
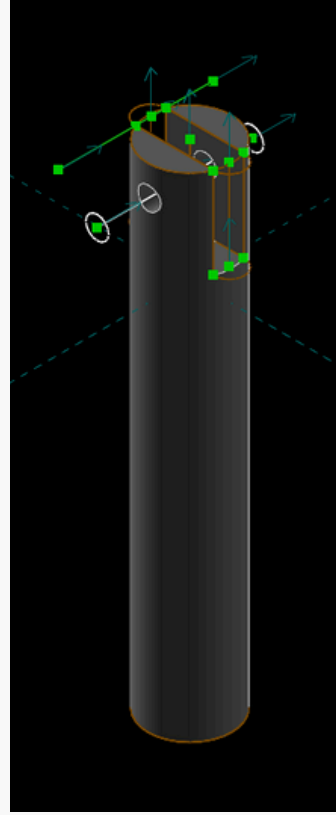
cad2024 作業網站

41223101 王妍方：<https://mdecad2024.github.io/hw-yan41223101/content/index.html>

41223104 袁儀瑄：<https://mdecad2024.github.io/hw-41223104/content/About.html>

41223105 許舒閑：<https://mdecad2024.github.io/hw-41223105/content/index.html>

摇臂與發射器需要零件(由所有組員分工完成)



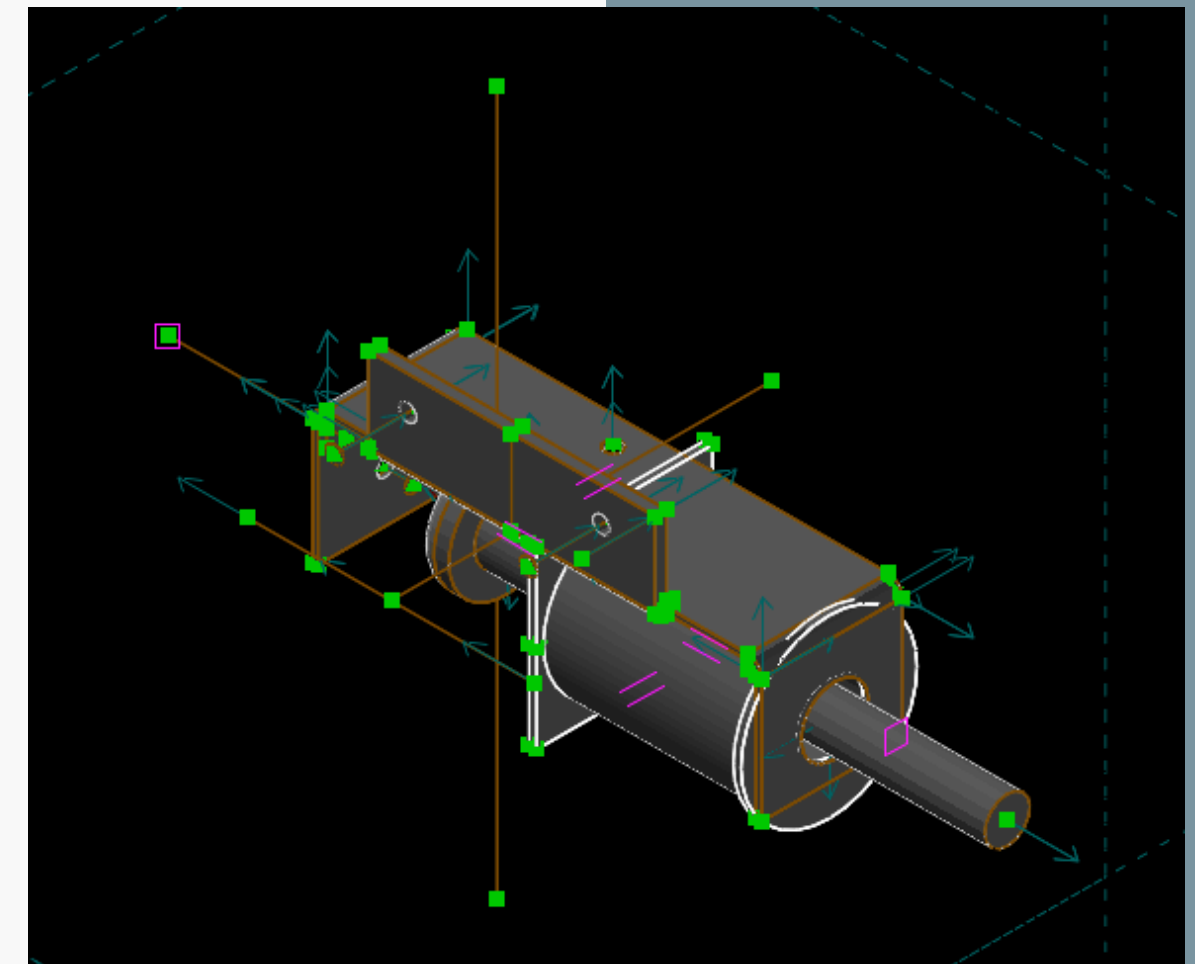
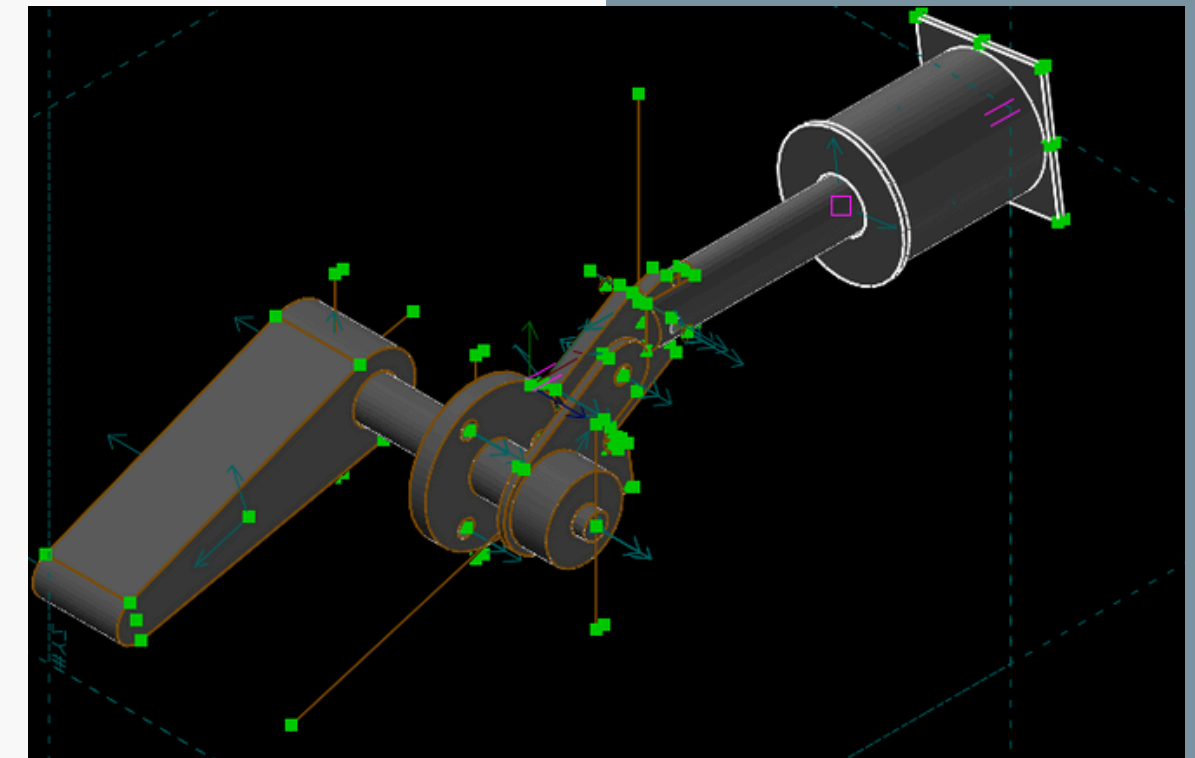
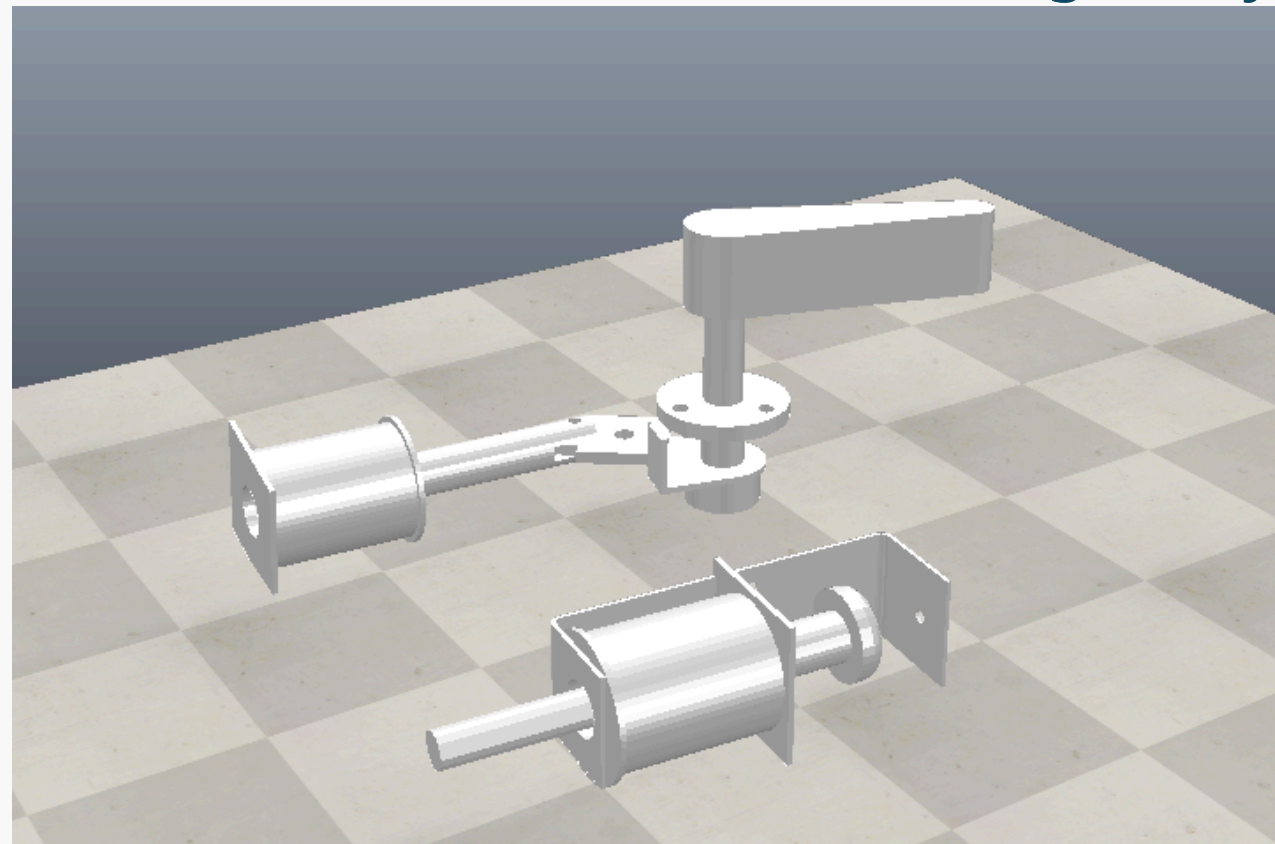
搖臂、發射器組裝

將搖臂和發射器組裝完畢後

→即可轉成STL檔案

→匯入CoppeliaSim中

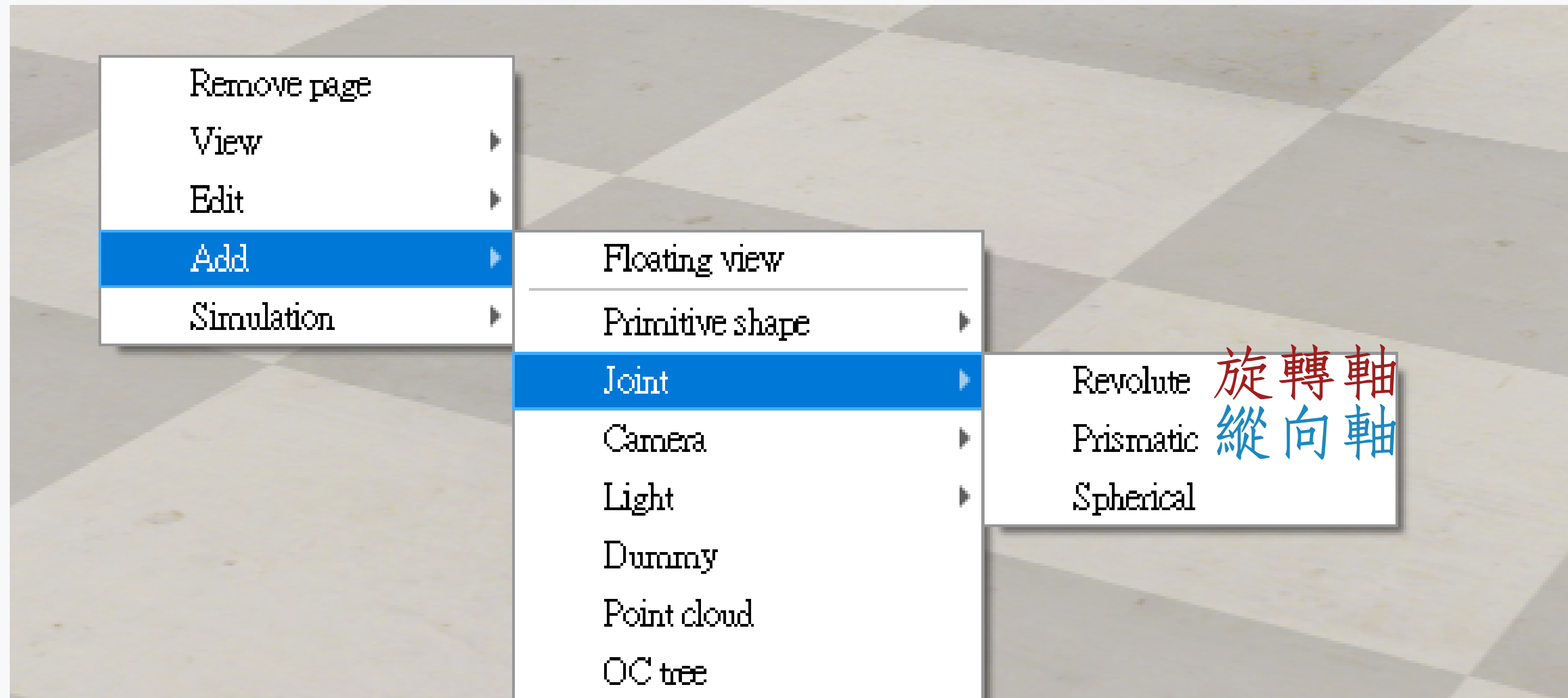
組裝影片：https://youtu.be/BIShRDp43BY?si=OM1F_it_dD_ETM2d
<https://youtu.be/0w9kcXPKxGw?si=zOt0c6U1gsJ8Zlly>



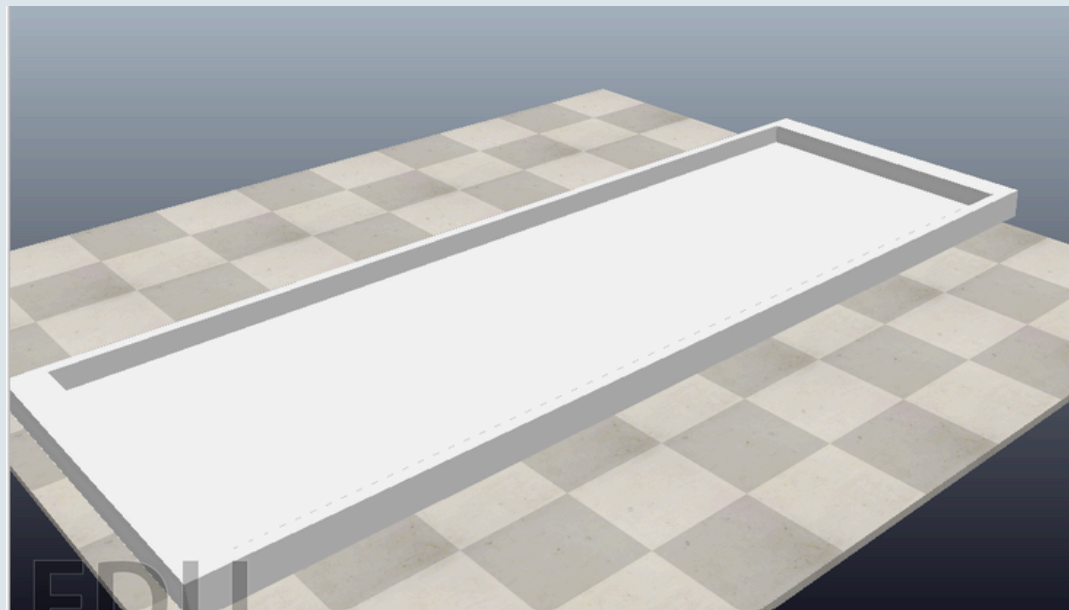
調整



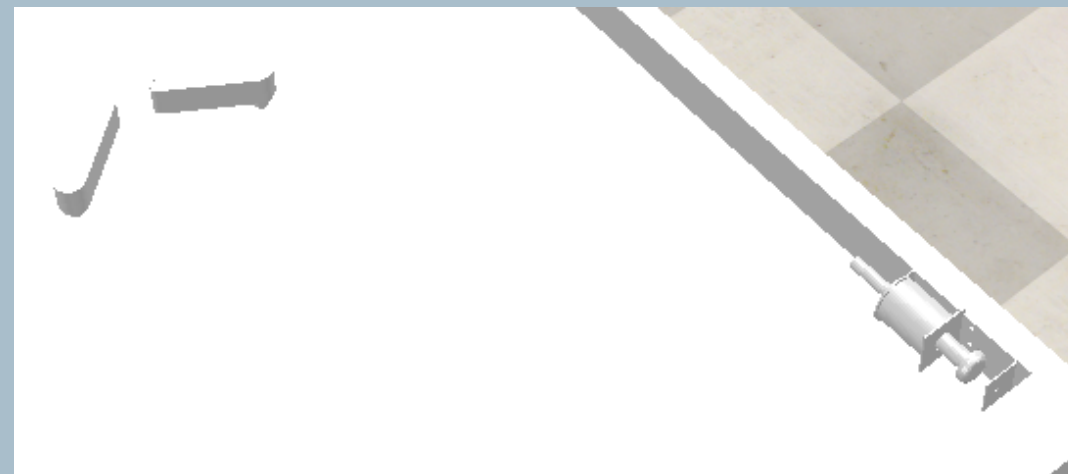
需要將每個零件之間的位置進行分配、調整，並根據運動方式加入以下三個軸向



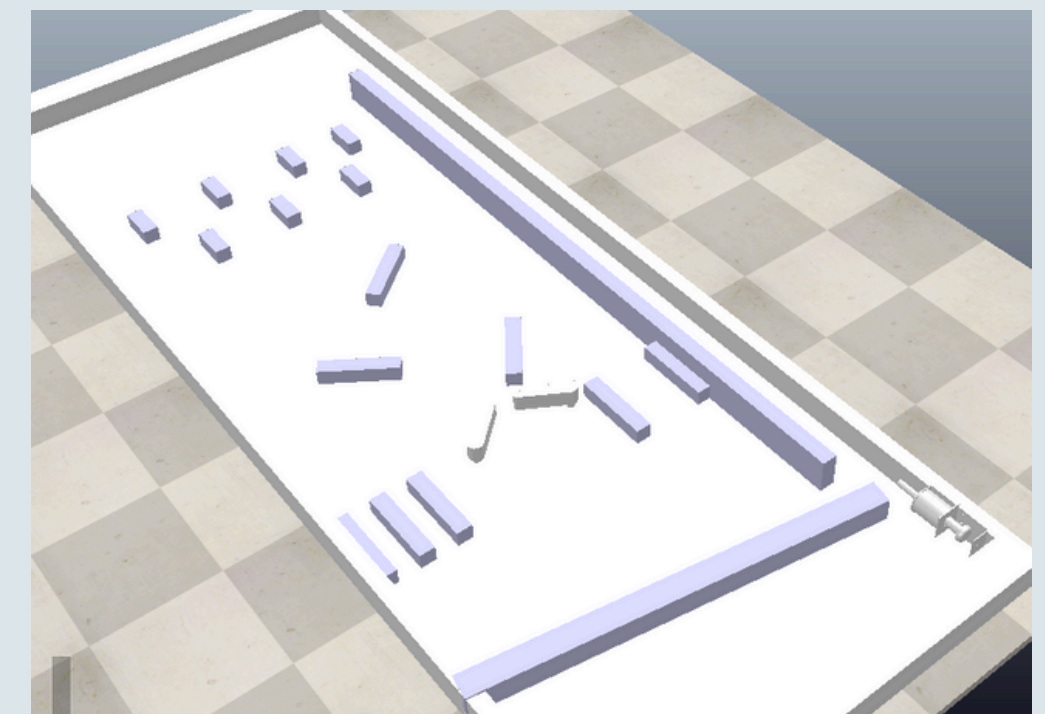
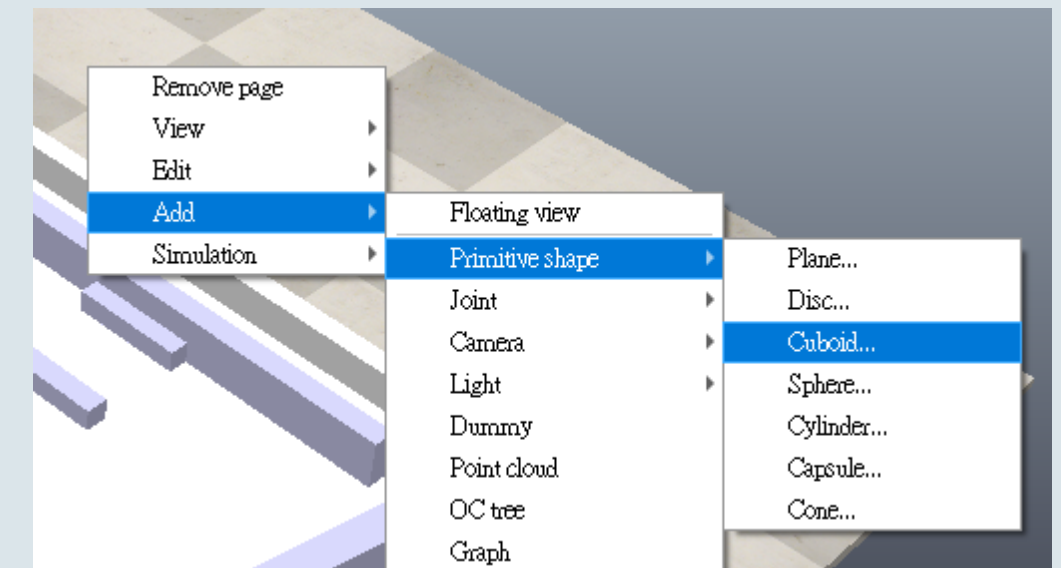
設計彈珠台



叫入自己畫好的彈珠台
基底(stl)檔
→調整地板大小(Floor)



叫入發射器、懸臂(stl)檔
→調整位置、方向(Floor)



加入邊框及障礙物、彈珠(球)

→Go啟動/Stop Executing結束

The screenshot shows a Python script editor window titled "123.py - SciTE". The menu bar includes File, Edit, Search, View, Tools, Options, Language, Buffers, and Help. The "Tools" and "Language" menus are circled in red and blue, respectively. The script content is as follows:

```

1 123.py

# pip install pyzmq cbor keyboard
from coppeliasim_zmqremoteapi_client
import RemoteAPIClient
import keyboard

# Connecting to the CoppeliaSim server
client = RemoteAPIClient('localhost',
23000)

print('Program started')
sim = client.getObject('sim')

# Get the handle for the slider (prismatic
joint)
slider = sim.getObject('/Prismatic_joint'
)

# Starting the simulation
sim.startSimulation()
print('Simulation started')

# Main control loop
def main():
    # Keep running until simulation is
    stopped

```

In the background, a terminal window displays a series of "s is pressed" messages, indicating that the keyboard module is successfully detecting key presses.

組裝模擬過程

操作影片：[https://youtu.be/S5SLazU6dJE?
si=0kLnw_D-ZVPiIyAD](https://youtu.be/S5SLazU6dJE?si=0kLnw_D-ZVPiIyAD)

