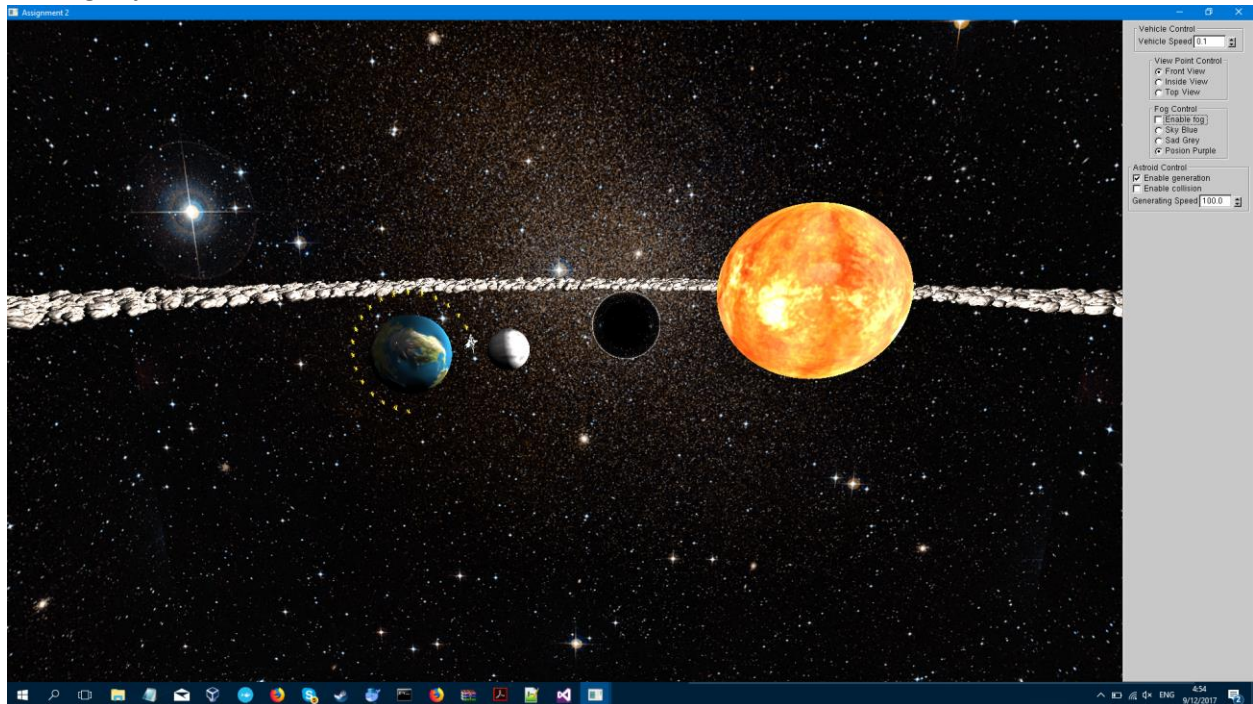
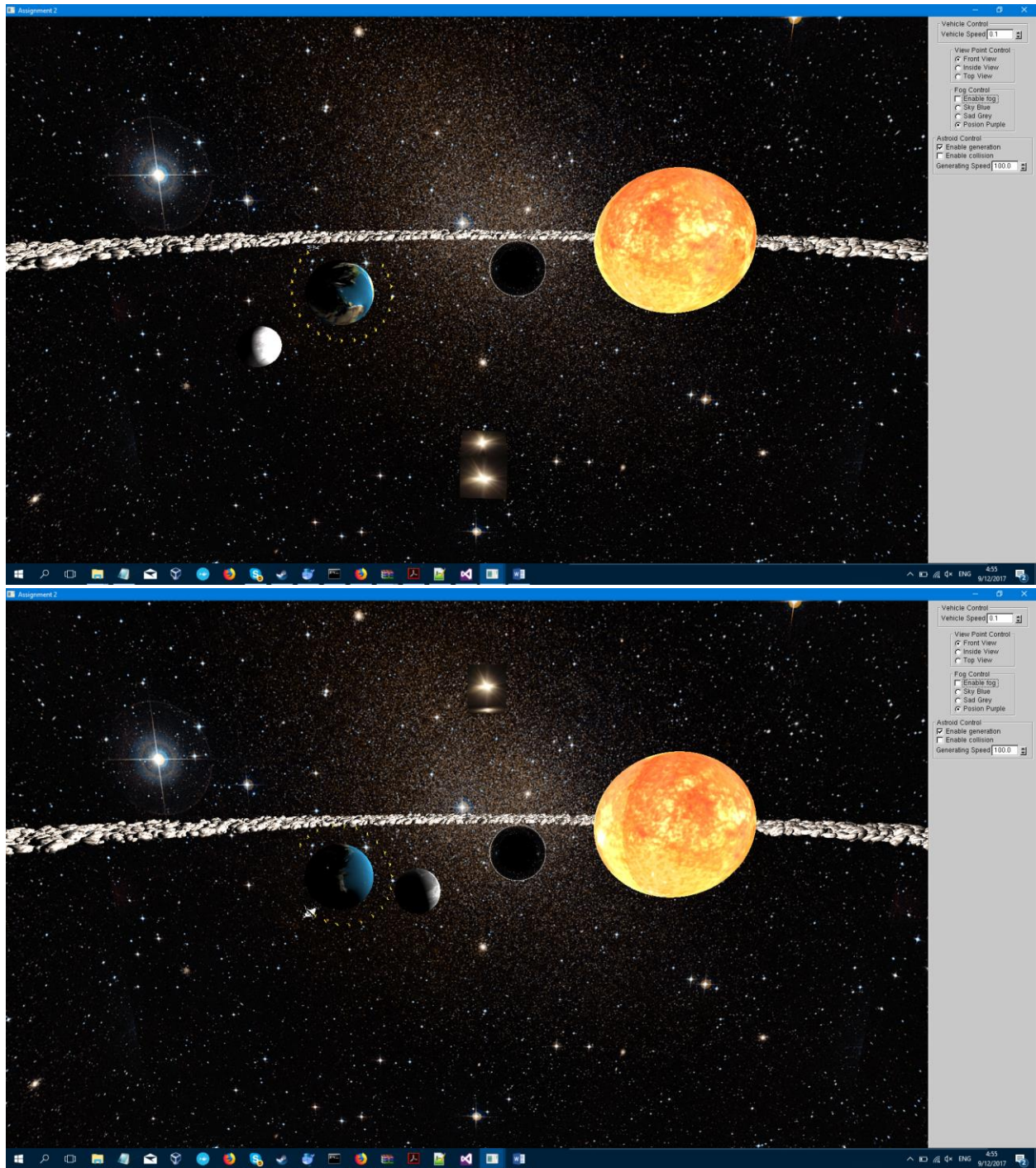


Cheng Wai Fat 1155079662

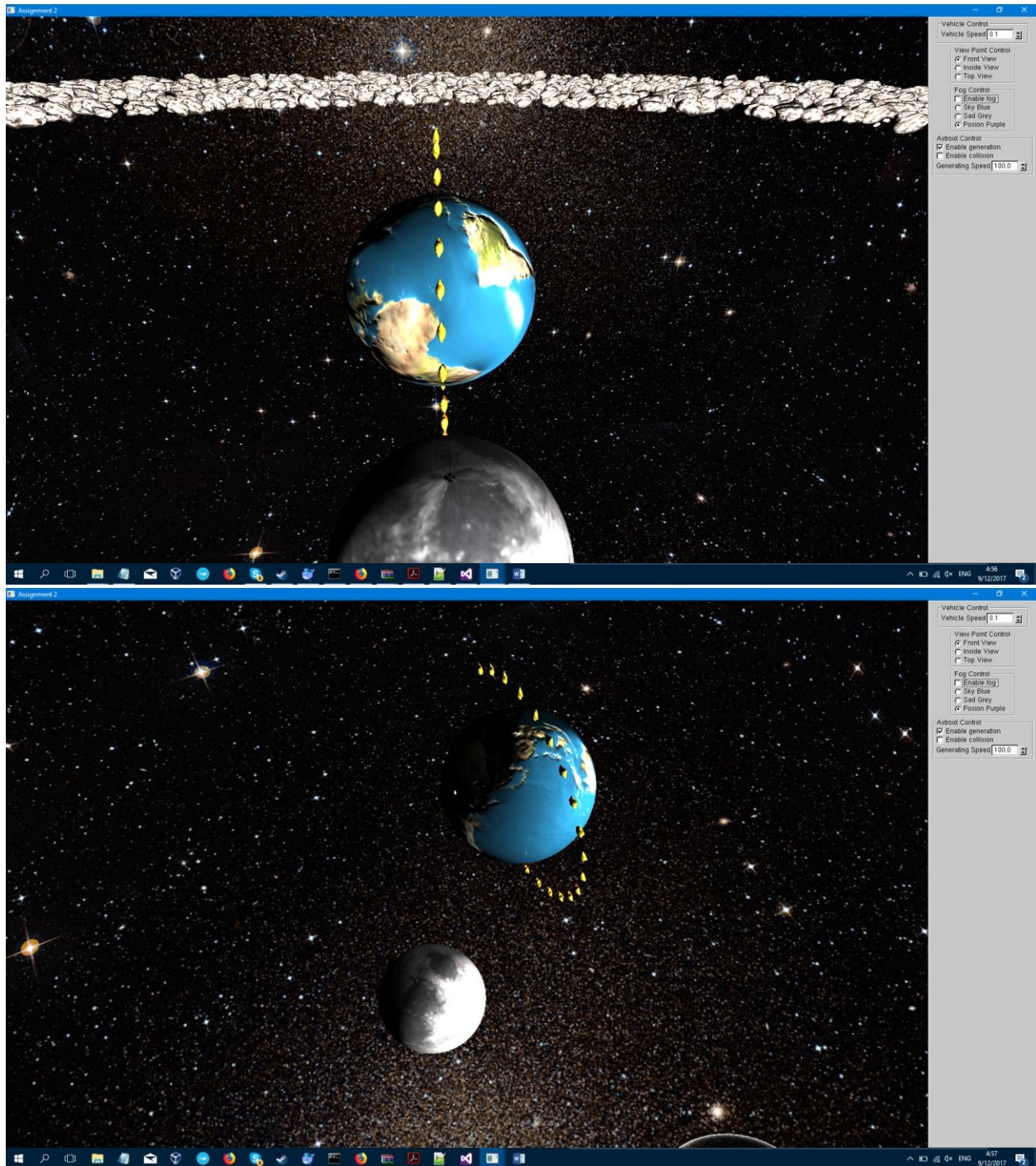
Lo Chun Hei 1155077843

Moving objects:

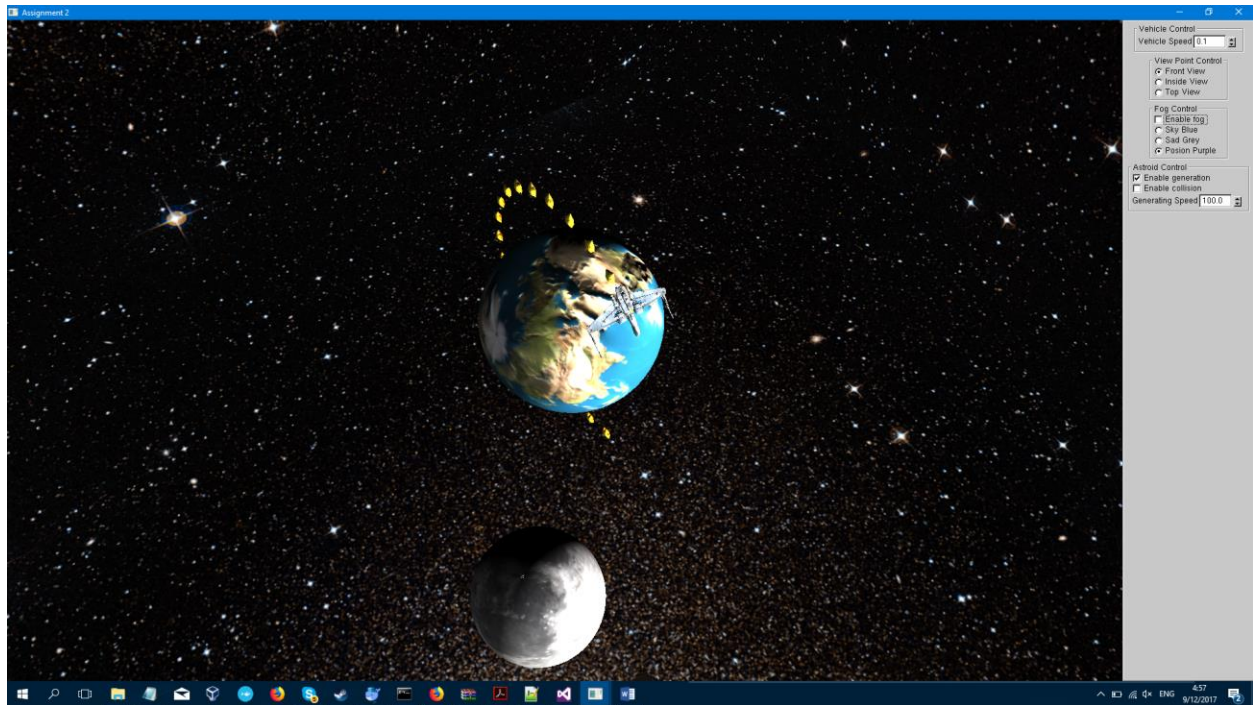




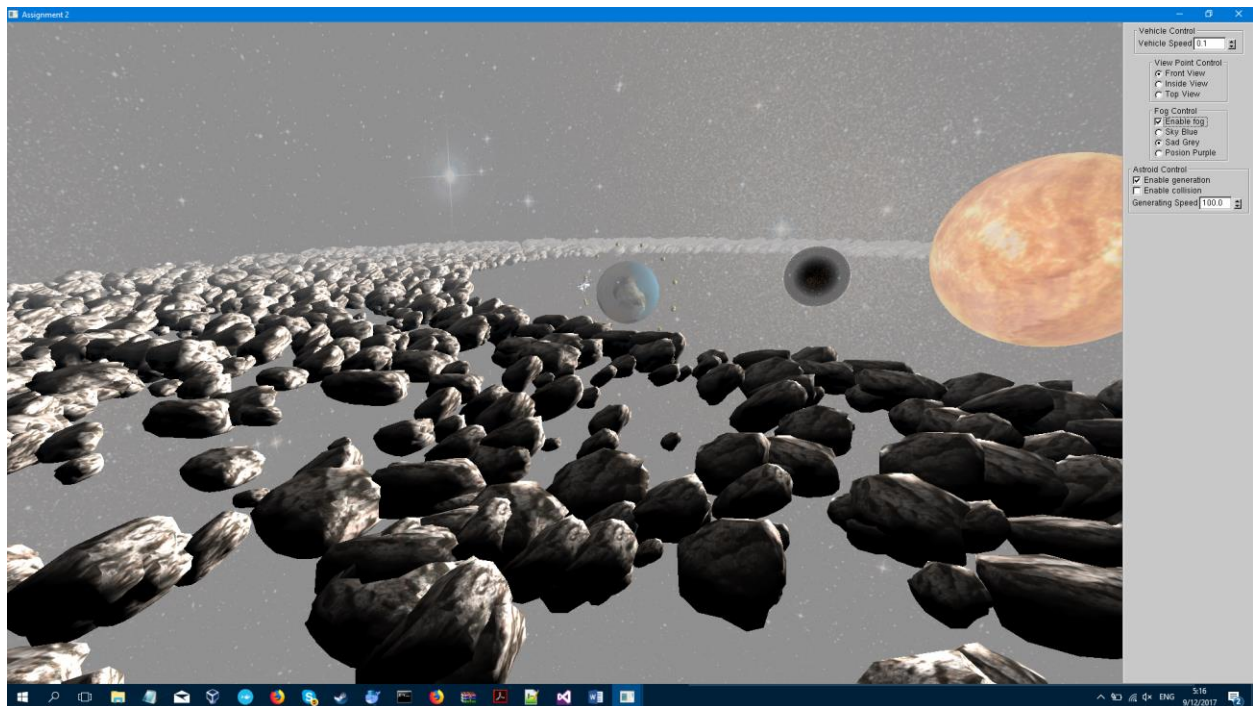
Lighting:

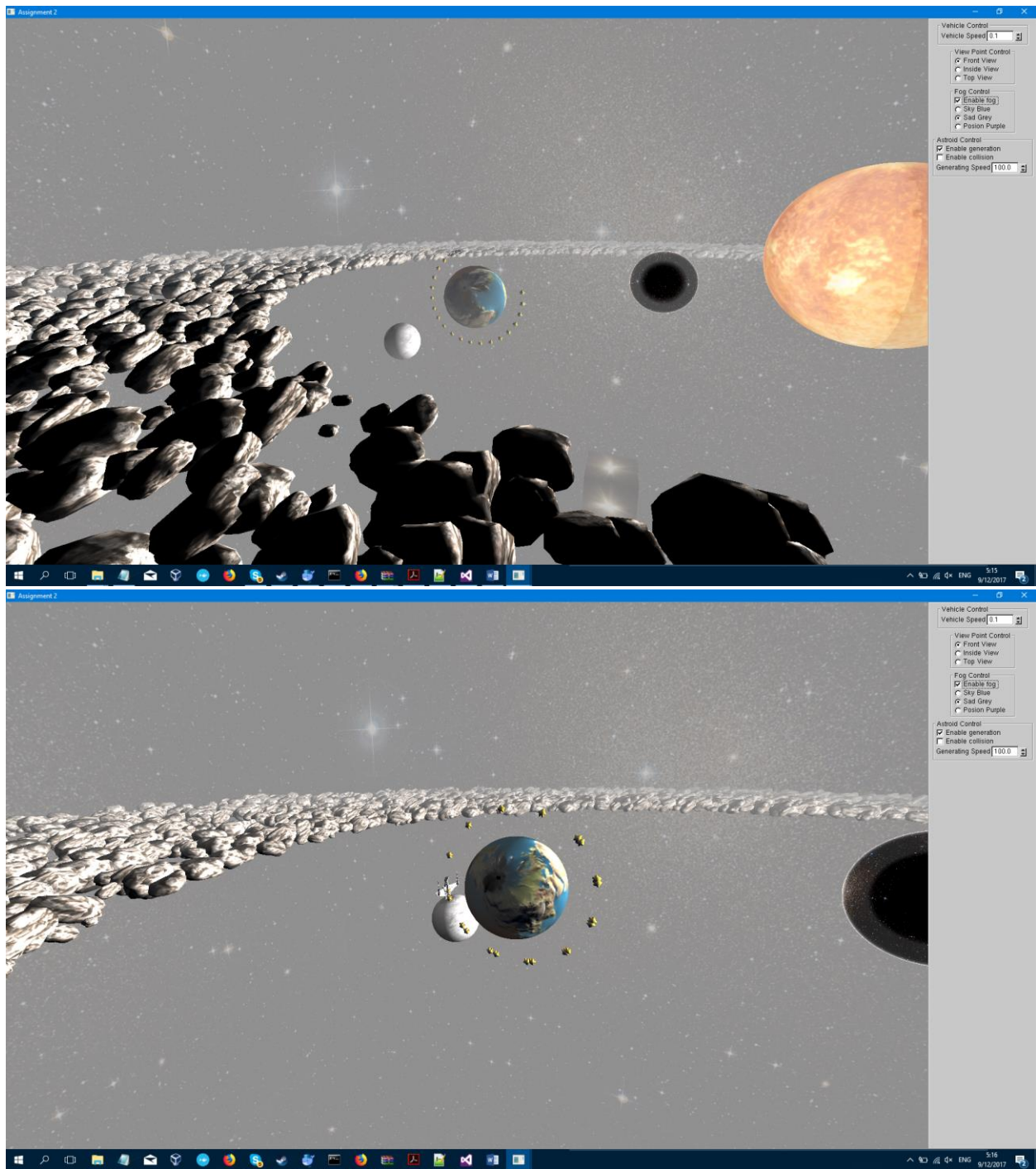


normal mapping:

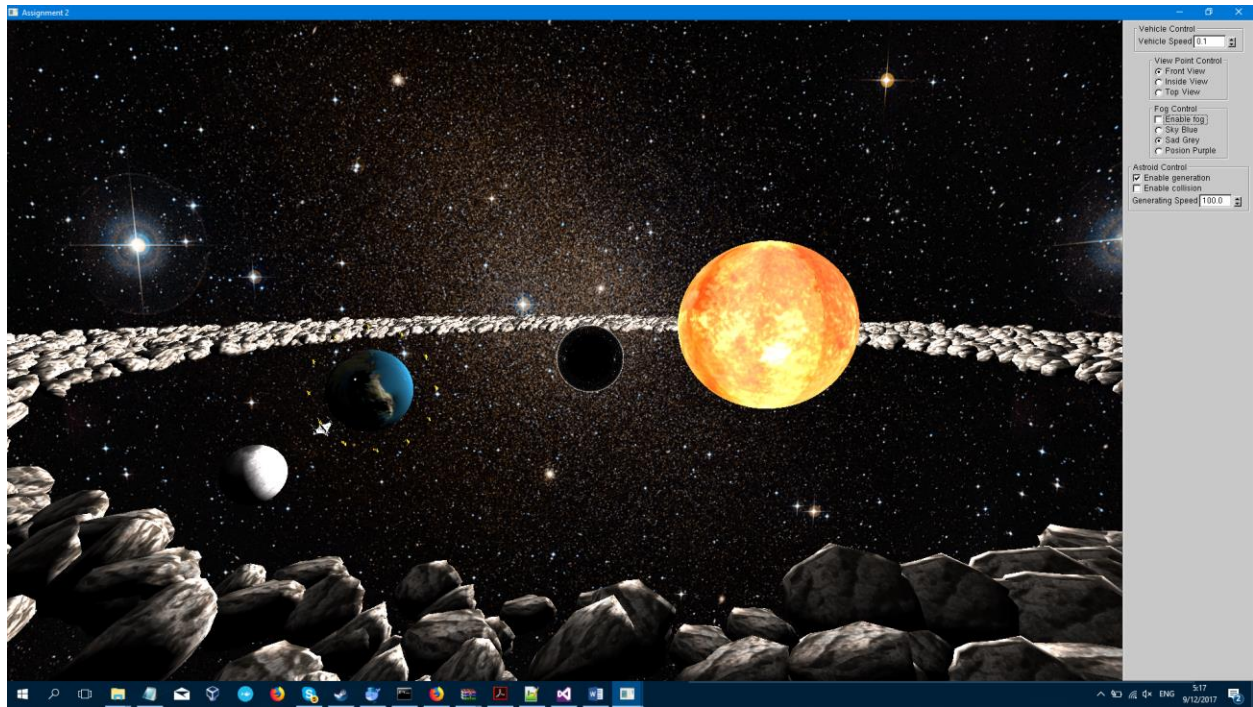


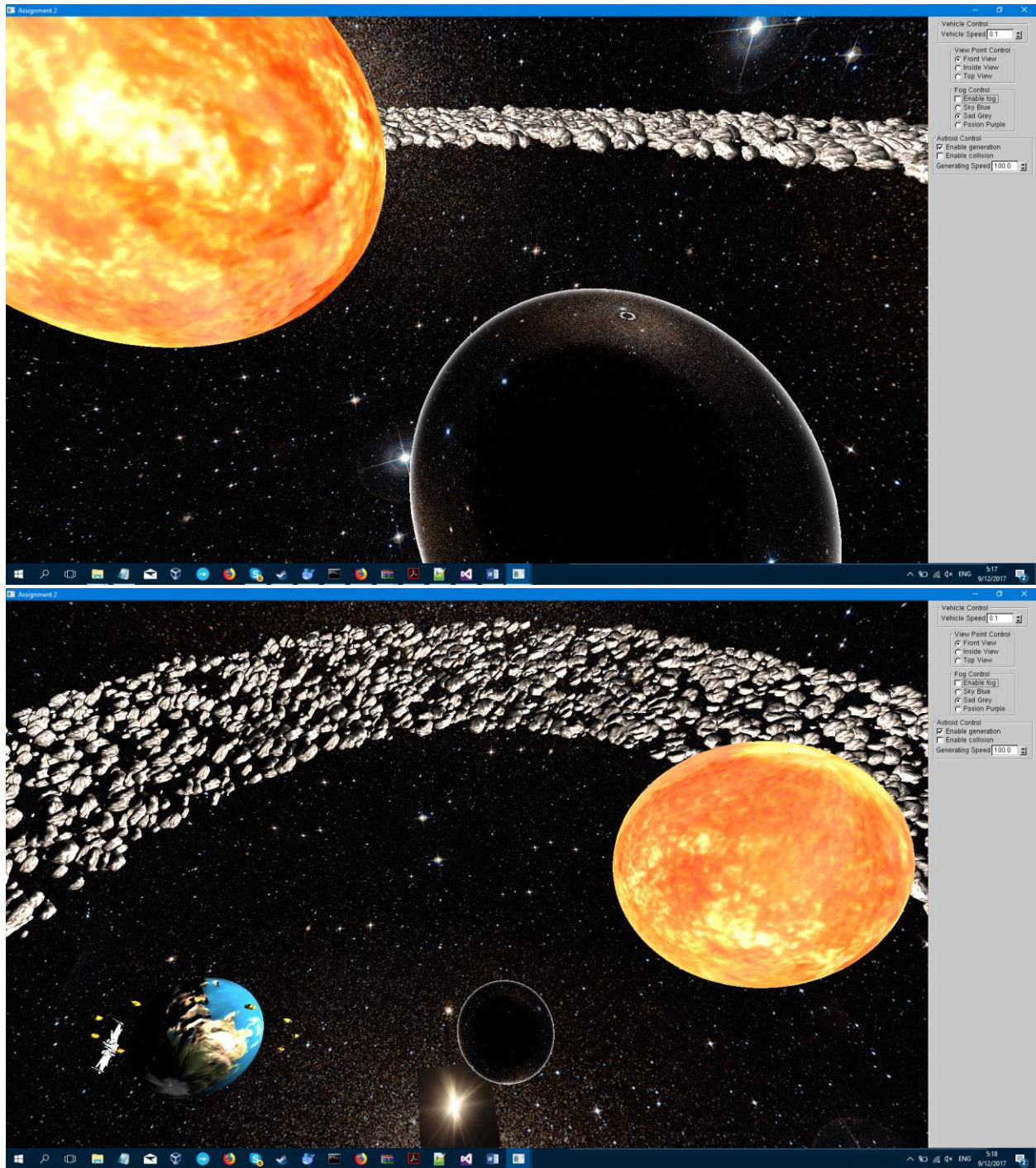
Fog visibility:





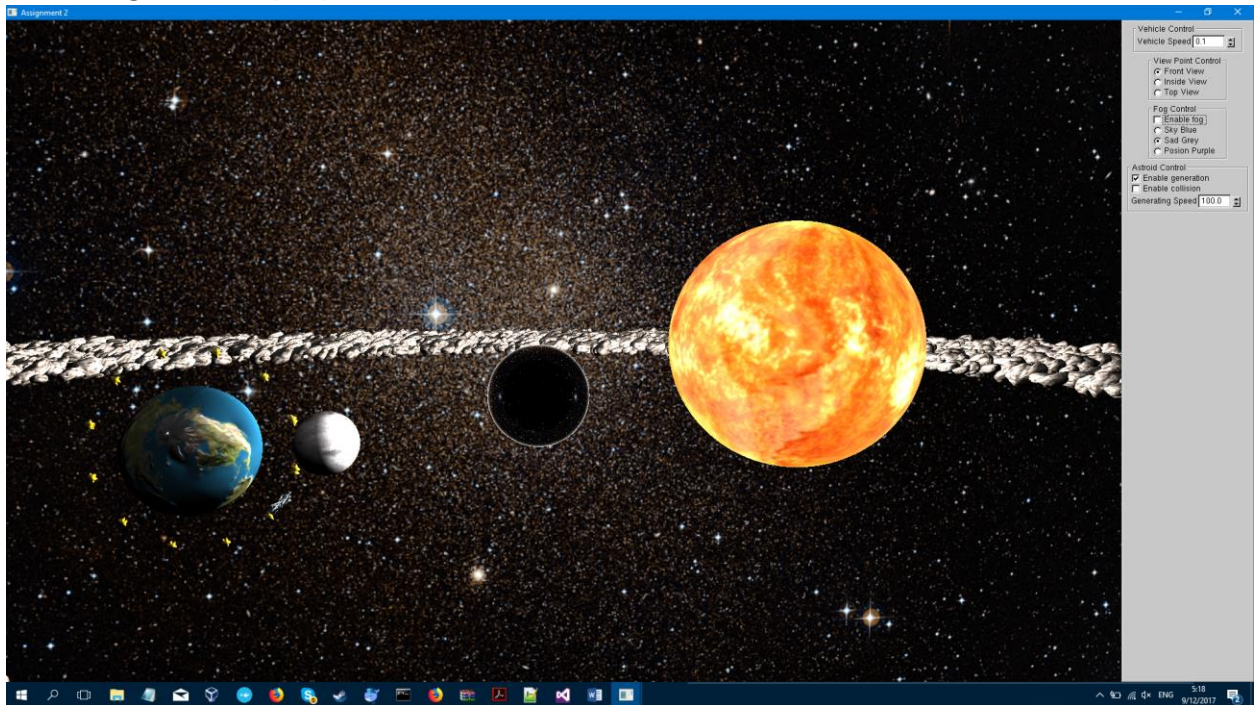
Three view points:



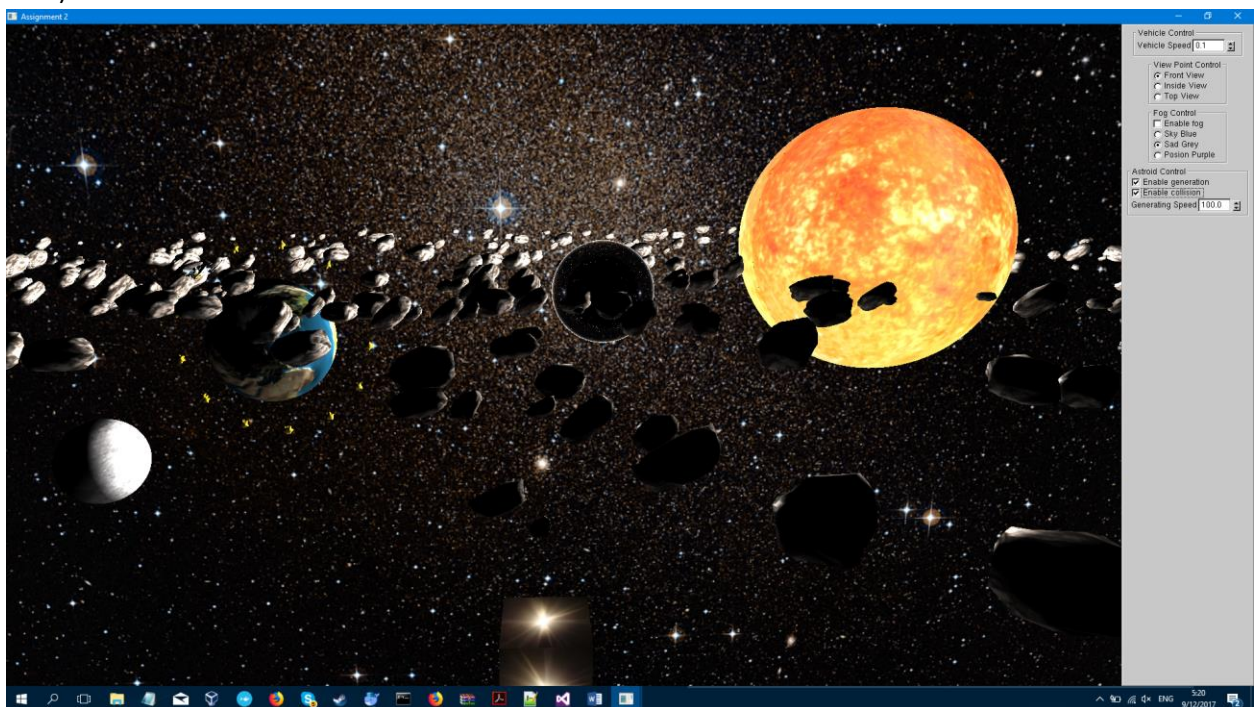


Bonus:

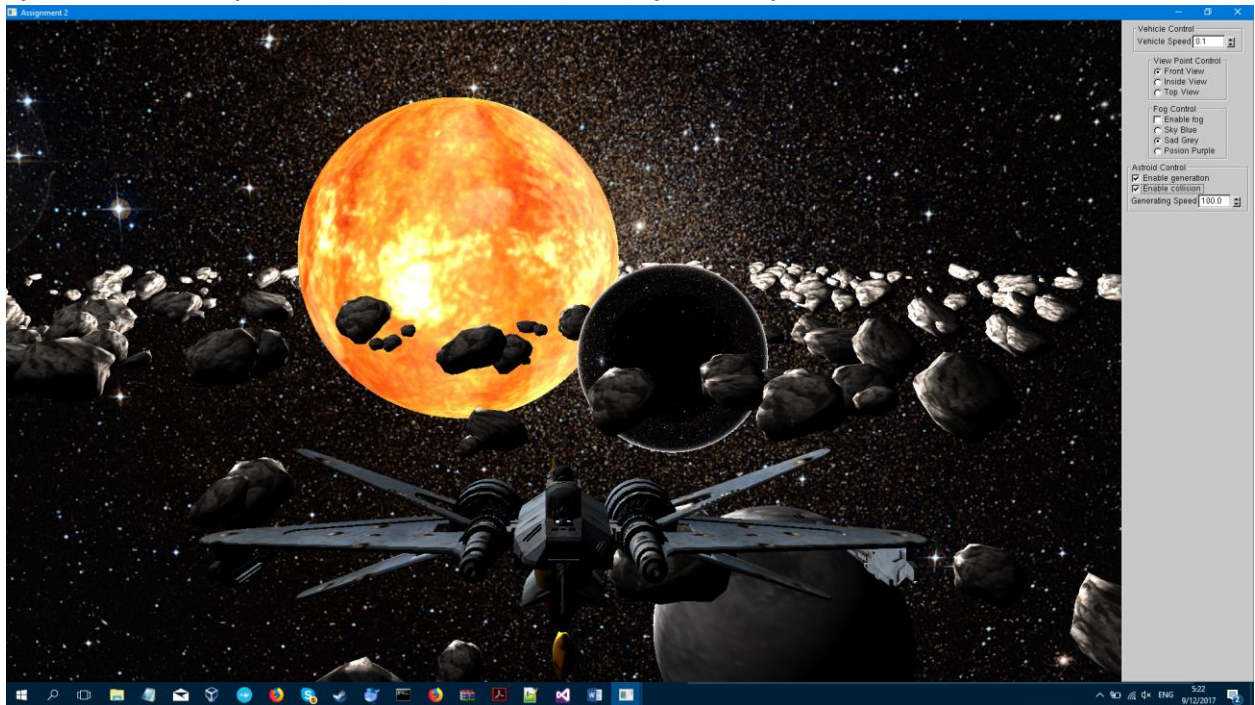
1. Another light source: (sun)



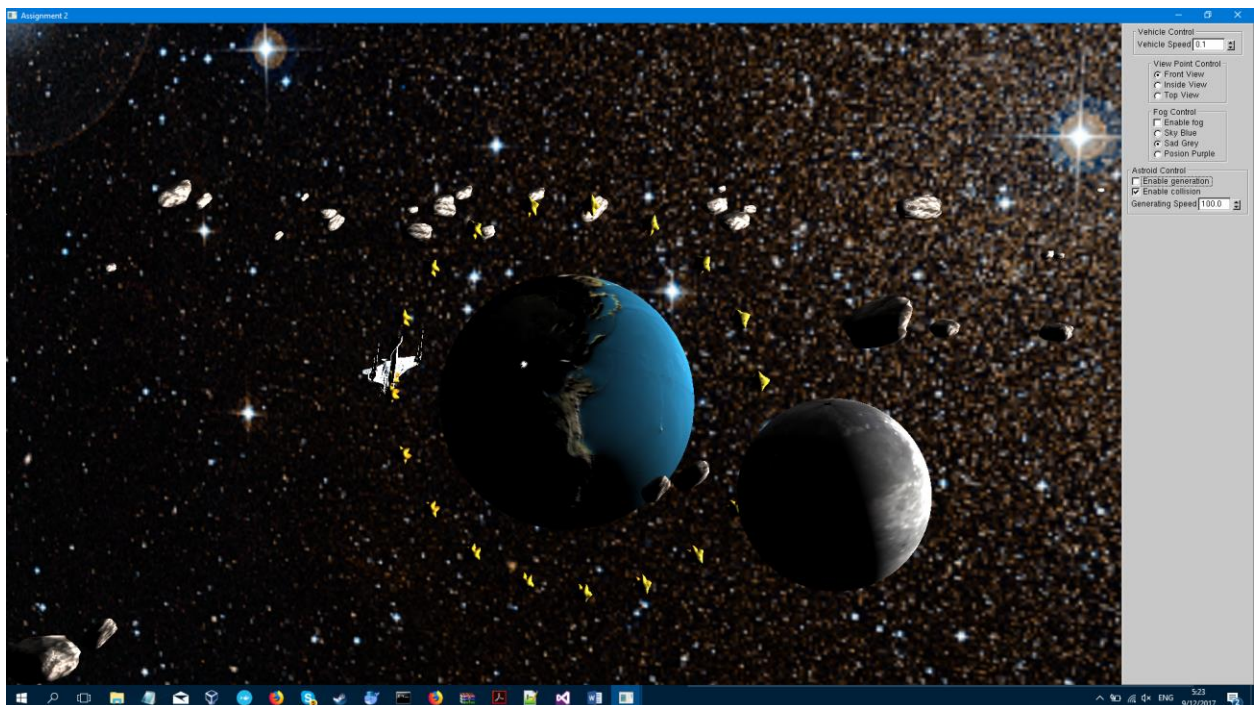
2. Collision detection: (using bounding sphere, when asteroids collide, they are pulled by the black hole)



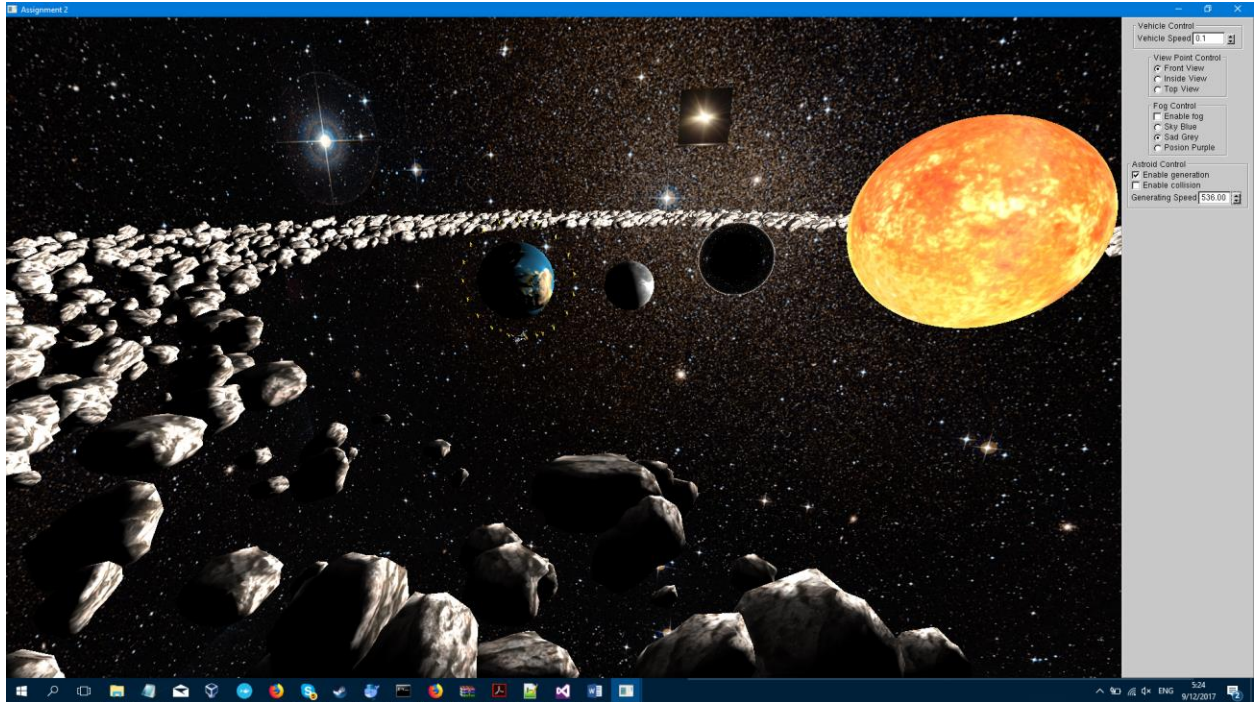
3. **Space vehicle viewpoint: (calculate the view matrix dynamically):**



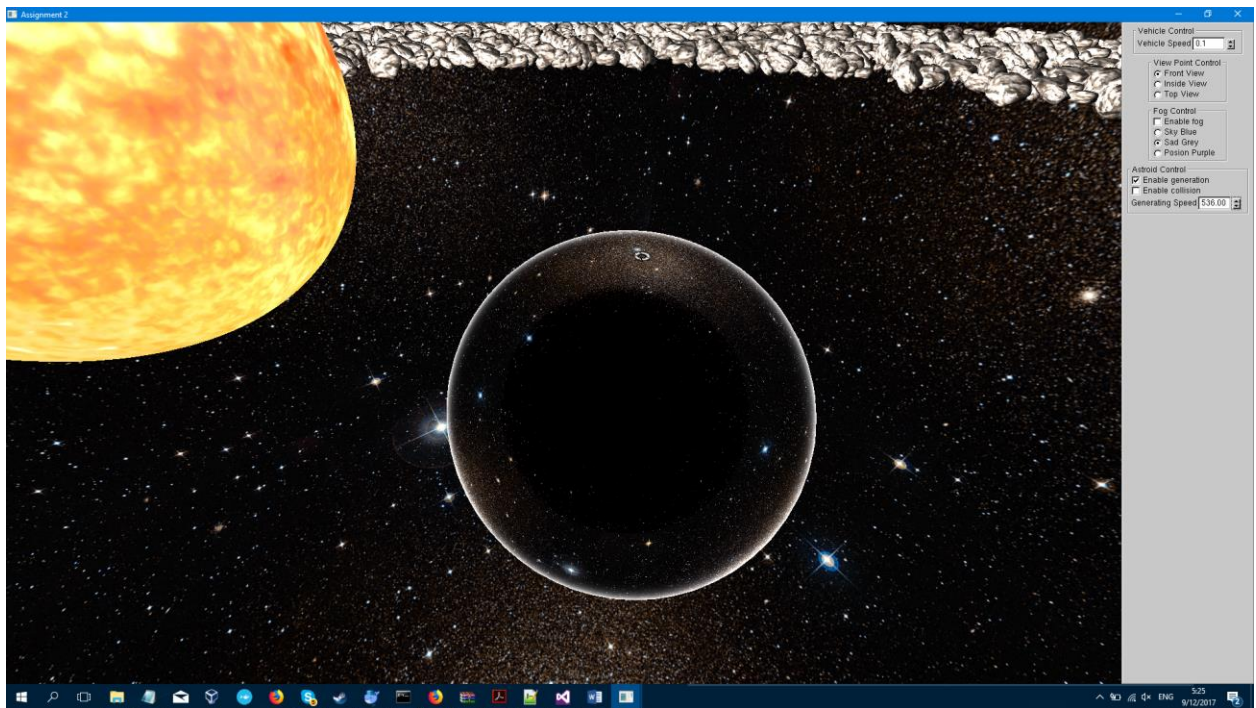
4. **Real time trajectory of vehicle:**



5. **Generate 5000 floating rocks: (instanced rendering is used)**



6. Use environment mapping



7. Play music: (using irrklang)

8. Black hole visualization with lighting:

