Assignment 1

**Group Members**: Cassidy Barr, Jacob Cazabon, Hassan Ahmad, Quentin Lambkin

**Transparent Teal Plane:** This object does not move or collide with any objects. The object does not have a rigidbody. Therefore, objects can fall through it. Nothing was added or removed from this object.

**Blue Cube:** This object does not move and does not collide with any objects. It does not have a rigidbody that uses gravity, which is why it does not move. Nothing was added or removed from this object.

**Red Sphere 1:** A rigidbody that uses gravity was added to this object. This object collides with the orange sphere and falls from the teal plane due to the gravity applied to it.

**Red Sphere 2:** This object does not move and does not collide with any objects. This object does not have a rigidbody which is why it does not collide with the orange sphere. The object also does not use gravity which is why it does not move.

**Green Capsule:** This object does not move and does not collide with any objects. A rigidbody that uses gravity was added to this object. Since no other object collides with this object, it would have no reason for gravity to result in it falling over.

**Yellow Cylinder:** This object does not move and does not collide with any objects. It does not have a rigidbody that uses gravity, which is why it does not move. Nothing was added or removed from this object.

**Orange Sphere:** The orange sphere is a rigidbody that uses the MoveIt script to ping-pong between (3, 1, 0) and (-3, 1, 0), colliding with other rigidbodies in its path (red sphere 1, white sphere 2, and the black cube).

**Purple Cube:** The purple cube does not move or interact with any objects. It resizes itself back and forth between 4x size and 1x size using the ResizeIt script.

**White Sphere 1:** The first white sphere is a kinematic rigid body that does not move or use gravity, and does not collide with any object.

**White Sphere 2:** The second white sphere is a rigidbody that uses gravity and collides with the orange sphere and then the black cube. After making contact with the yellow cube and the orange sphere, the object eventually falls off the plane.

**Grey Sphere:** The grey sphere is a rigidbody that has gravity added to it. The object falls and collides with the teal plane and remains there.

**Black Sphere:** A rigidbody that uses gravity was added to this object. Additionally, the collider for this object was removed. This results in the sphere falling through the teal plane due to gravity and the fact that it cannot collide with other objects.

**Yellow Cube:** The yellow cube dont not move or interact with any objects. It rotates using the RotateIt script.

**Black Cube:** The black cube is a rigidbody that does not use gravity, so it simply goes flying when it collides with white sphere 2 and the orange sphere, never to be seen again.