Object resets to original position

When an object that has been picked up by the player enters a trigger, it will leave the player's hands and revert back to its original location.

- 1) To begin, place some basic objects for the player to walk around on, then add the player controls (for this demo I simply used a preset FPS controller).
- 2) Create a cube and place it on a section of the floor, on the above demo I placed it at the start of a tunnel, where a separate behavior teleports the player to another location. Turn off the Mesh Renderer in the object's properties, and tick "Is Trigger" in the box collider.
- 3) Make sure the object contains a collider and rigidbody.
- 4) Add a new script to the cube, or for my demo, add to the script that contains the pick-up function that is attached to the object.

- 4) Create a "Vector3" and "Quaternion" variable, this will read the object's position and rotation respectively. Name them "originalPos" and "originalRot".
- 5) In the Start event, the code will assign the starting position and rotation of the object to the variable using the code, "originalPos = new Vector3(gameObject.transform.position.x, gameObject.transform.position.y, gameObject.transform.position.z);". This will need to be repeated below, replacing "position" with "rotation", "Vector3" with "Quanternion", and "originalPos" with "originalRot".
- 6) Inside the OnTriggerEnter event, create the if statement, " if (other.gameObject.tag == "teleport")". This will make the object only activate if the trigger that the object passes through has the tag "teleport".
- 7) Inside the if statement, type "gameObject.transform.position = originalPos" and "gameObject.transform.rotation = originalRot;".

 When the object passes through the trigger, this will change the object's position and rotation to what was read at the beginning of the scene.