**Handling Occlusions:**

* Occlusions occur when objects temporarily block each other in the field of view. SORT incorporates mechanisms to handle occlusions, maintaining the continuity of tracks when objects reappear after being temporarily obscured.
* In object tracking applications, especially those dealing with real-time video streams and challenging scenarios like occlusions, the SORT library plays a significant role. Its efficient data association techniques and adaptability make it a valuable tool for developers and researchers working on object tracking solutions.
* Hand tracking with occlusion handling involves dealing with scenarios where a hand may be partially or fully hidden behind objects. This is crucial for applications like augmented reality or human-computer interaction, where accurately tracking the hand even in occluded situations is essential.

**CHALLENGES FACED:**

* The cascade xml which is used to detect the hand was tough to find
* Due to the size of the video the complier would pause for few minutes and restart again

**INSIGHTS:**

* Using the hand detector xml, I got to know that there were different detector xml files available like face, smile, etc which can also be used
* I got to know that for object extraction we have to apply thresholding to create a binary mask