**Experiment no- 05**

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**Title:**

*Draw a sequence diagram.*

A sequence diagram is a type of UML diagram that illustrates how objects interact with each other in a particular scenario or use case. As for YouTube, the following sequence diagram describes the basic flow of about YouTube videos:

* User opens the YouTube website or app.
* YouTube server verifies the user's login credentials.
* User searches for a specific video or browses through the recommended videos.
* YouTube server fetches the requested video or recommended videos and displays them on the user's device.
* User clicks on a video to play it.
* YouTube server streams the video content to the user's device.
* User interacts with the video by pausing, rewinding, or changing the volume.
* YouTube server records the user's interaction and updates the user's watch history.
* User can also leave comments, likes, or dislikes on the video, which are saved on YouTube's servers.
* YouTube server recommends additional videos based on the user's watch history, comments, and likes/dislikes.

