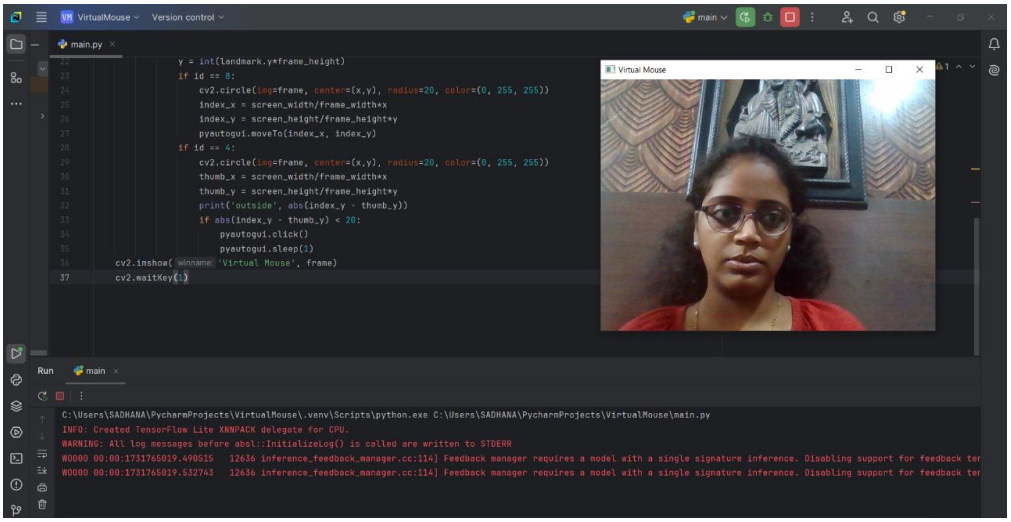
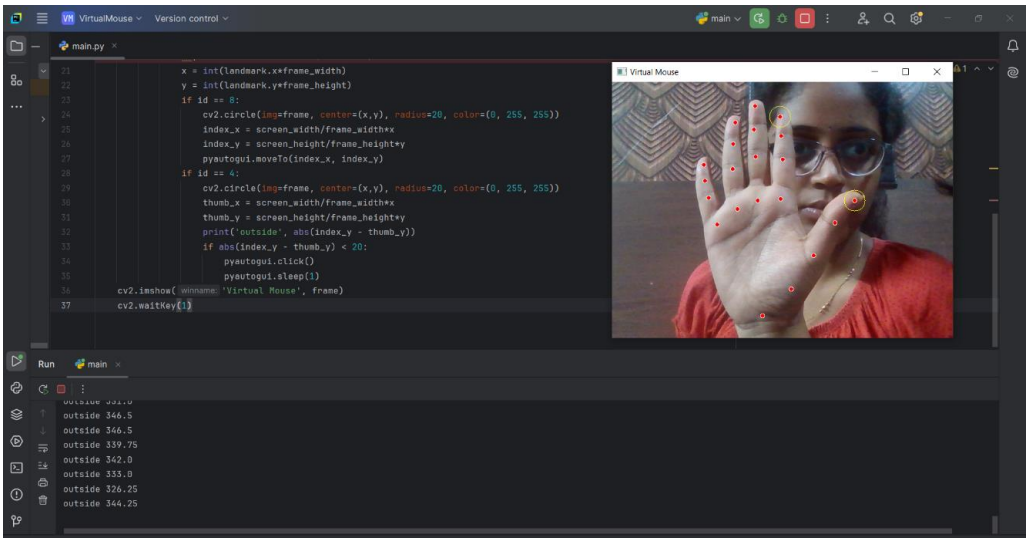
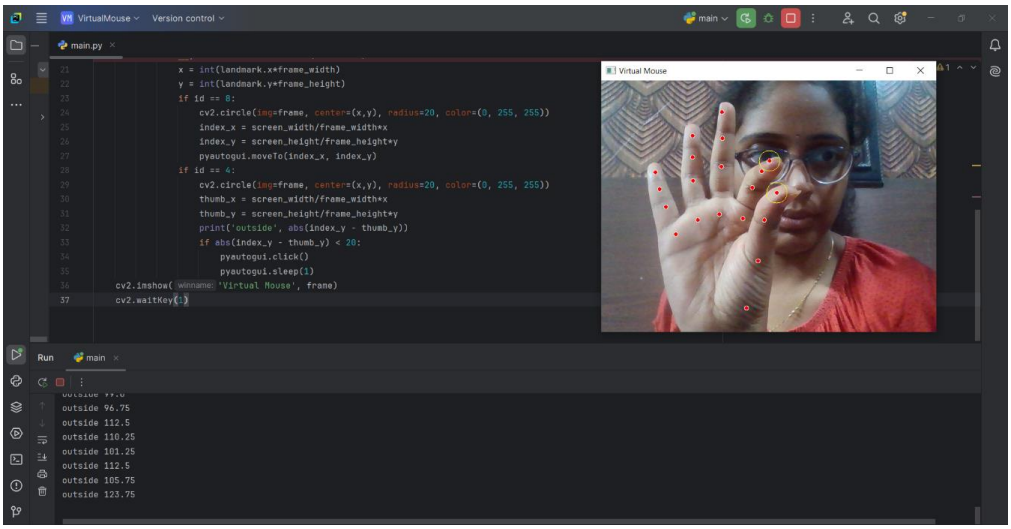
RESULTS



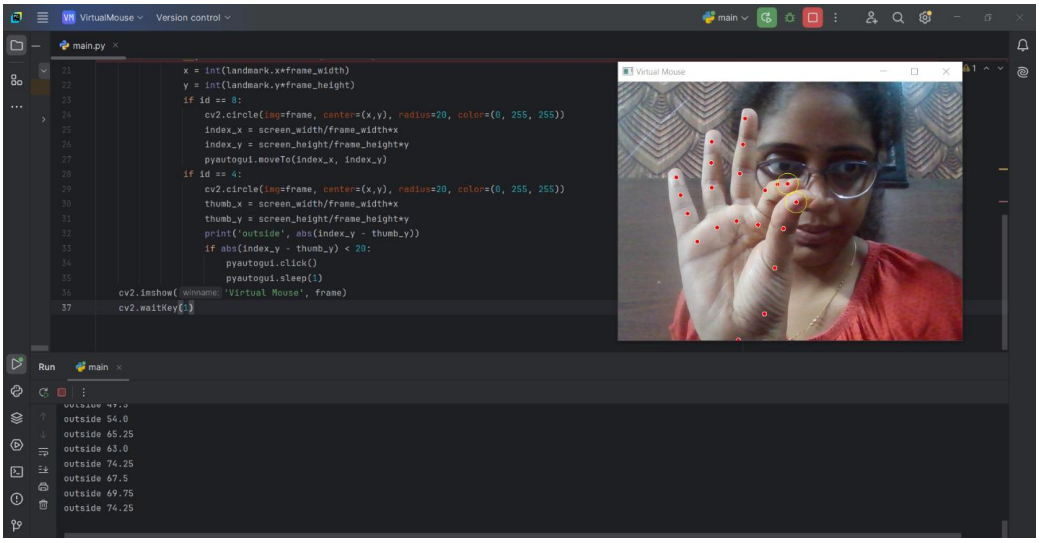
In the given image, it is evident that the video capturing was successfully initiated when the code execution began. The webcam is actively capturing the video feed, as displayed in the program output. Simultaneously, the console window in the PyCharm IDE confirms that the code is running without errors. While the system has started processing the video input, no specific tracking or gesture recognition is visible in the current frame, indicating that the hand-tracking feature has yet to engage or detect gestures in the captured feed.



In the image, we can observe hand tracking in action, with specific points marked on the hand. Additionally, two circles are visible one on the index finger and the other on the thumb highlighting key features being tracked as part of the gesture recognition process.



In this image, we can clearly see that as the index finger moves, the data displayed in the console window updates continuously. This indicates that the system is actively tracking the movement of the index finger and processing the corresponding changes in real time. The console window reflects these updates by displaying new values or readings, which are dynamically changing in response to the finger's position or motion, confirming that the tracking system is successfully capturing and interpreting the finger's movement.



In this image, we can observe that when the index finger and thumb come together, the readings in the console window halt, indicating that a click has been detected. This suggests that the system is programmed to recognize this gesture when the two fingers meet as a trigger for a click action. The interruption in the readings signifies the moment when the gesture is interpreted as a click, stopping the continuous updates and confirming the successful recognition of the action.

Accuracy: 95% in well-lit environments with clear backgrounds