

1. 1.3 Perform the Durbin-Watson test using  $\alpha = 0.01$  to check if autocorrelation exists. Show the details of your test and explain the results

The D Critical Value exceeds the upper value. Therefore, it fails to reject the null hypothesis, and proves no autocorrelation exists. This validates the results of the F-test and t-test, supporting that the model possesses significant predictability