Lab number: 4

Lab Title : Stop-N-Wait, Sliding-Window and Trace File Analysis

### Abstract:

### *Looked through the Stop-N-Wait vs Sliding-Window example to compare the two features, then learned about trace files and implementing them before actually modifying the networks from previous labs to include them and looking at what appeared in these trace files.*

### Aim objectives and goal:

*I aimed to determine which method between Sliding-Window and Stop-N-Wait was better at handling traffic, and also aimed to learn more about trace files.*

### Observation/ Results and Discussion:

*After looking at both features, I noticed that the Sliding-Window seemed to be the superior choice as it appeared to drop less data packets compared to the Stop-N-Wait feature. A notable thing about this is that the Sliding-Window continued to perform well even when network traffic was congested, so network bandwidth is put to good use.*

*As for trace files, nothing seemed too out of the ordinary when taking the context of the .tcl files into account with each trace being noted down, however I did notice that the example4.tr file was empty – presumably due to no actual communications happening, however I feel as if I understand trace files well now as a result of looking over them.*