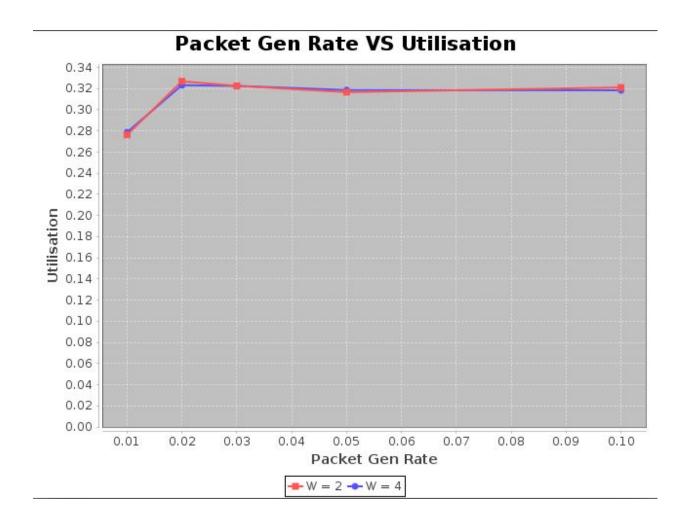
Networks Lab 8

Slotted Aloha Protocol

As Packet Gen Rate increases, the chance of collisions increase and hence the Mean Packet Delay increases.

Utilisation peaks when N*p = 1.

Here N = 50 and we obtained a peak for p = 0.02



Number Of Nodes: 50

Window Size = 2

Packet Gen Rate	Utilisation	Mean Packet Delay (slots)
0.01	0.2761874179842675	27.278
0.02	0.3267968315609692	38.0582999999999
0.03	0.3225190659414469	51.60010000000005
0.05	0.3165828275940286	63.9973999999999
0.1	0.32099417902954813	74.1948999999998

Window Size = 4

Packet Gen Rate	Utilisation	Mean Packet Delay (slots)
0.01	0.2785778061262027	25.7889999999999
0.02	0.32315117248882474	38.4689
0.03	0.3224603550374032	48.6511
0.05	0.31855903895058885	63.8008000000001
0.1	0.31831836577271333	73.0882000000001