

# Computational Neuroscience Coursework Two

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## 1 Question 1

### 1.1 Refractory Period of 0ms

- Fano factor with a window size of 10ms : **1.00047**
- Fano factor with a window size of 50ms: **0.98823**
- Fano factor with a window size of 100ms: **0.99454**
- Coefficient of Variation : **0.988577**

### 1.2 Refractory Period of 5ms

- Fano factor with a window size of 10ms : **0.75252**
- Fano factor with a window size of 50ms: **0.69116**
- Fano factor with a window size of 100ms: **0.67842**
- Coefficient of Variation : **0.821978**

## 2 Question 2

- Fano factor with a window size of 10ms : **1.11924**
- Fano factor with a window size of 50ms: **2.92777**
- Fano factor with a window size of 100ms: **4.10090**
- Coefficient of Variation : **2.00855**

### 3 Question 3

Graph showing the plot of the average spikes against time intervals

