dva: 23/4/20 Yuval Samilor Katz Assymment Od id. 204025258 1) See file ass\_1. py+ ussoze61. Phg. Code explanation: - We got input of stochastic point process. total of 10,68% sec. (ve add 15ecfor fig) - then we cropated a figure with 35 ubfigs: Pre-a pa) "Neuron Charir" - spike train in when resolv-Avg SP/Sec -> 0.000335 50 We suid 0.001, a) for 1 sec window (1000 mSec=T): Famo Factor (FF) FF=0.33 } Very noisy seems like · (v=0.15 ) who regular never b) for 25 msec window: } Relativly Vregular nerva. FF= 0.62 Lv=1.27 Sclose to poisson (+1.2)
but no(pc:-> (.v=3) because Co is a measure of c) torpoisson spike truin (homogeneous) both micro order (tou vesu) order indicators (Fano Factor and Coef. of Ver.) should be close to 1, yet it is not sufficient. FF is a measure In our case, using a relatively small winsize of Macro order. (Kigh resu.) the "Neuron Otheriv" has similarities poisson process 1) Everything is relative!

(A.E) (homogeneous) but both indicators uven't 150 No! Cv is high with small window size, but low with high window size-> the bigger the 4(t) = 55 281516 Window the more regular the neuron Goens! r(+) ref < r(t) smaller window -> less or der-> not regular 2) See File ass\_2.py+assozexoz.png. Yet=reflactory Period a) TIH - count of No of spires per bin (Hybrisher 6) Survivor traction - Constant

() Huzard for - In poi plut = P. here not rf, rc

d) Autocorrelation - Symptonic Normalized. We took go seconds, and stimulated a poisson neuron with 55 msec five rate (on arg). He added 2 periods which affected the Huzard+Smr. in the autocorr we got ears that represents the retard rec periods. (in Hazard Suposed to be constant because in polson independent prop.)

