6) The histogram suggeste that it my be an exponential distribution.  $F(X_{(R)}) = \frac{k - 1/2}{N}$  $1-e^{-\lambda X(\mathbf{k})}=\frac{\mathbf{k}-1/2}{N}$  $y_{k} = X(k) = -\frac{1}{4} Nen(1 - \frac{k-1/2}{N})$ Forom the excel sheet,  $\frac{1}{\lambda}$  = mean = 9.459 Looking at the diagram given by sir, N h 5 C n ≤ 10

I would prefer to use a value of "h" which is closer to 10 corresponding to the which is closer to 10 corresponding to the right half.

value of 9 chase h=8 with 2f=8-1-1=6. Forom the notes, we have, p= 1- Fr(42) computed  $4^2 = 1.84$ . - 1 (1.05904)

-1 - ~ n L 6 1 9

- 0.93381

confident that our hypothesis Therefore, we are being exponential is tome. of the distribution