

Homework 3: numpy and try ... except

Due date: Wednesday February 27 2019, 11:59pm

Use the notebook interface and send me the notebook via canvas

1. Use numpy to solve the following
 - (a) Generate the numpy vector [1 2 3 4 5] in 3 (three) different ways!
 - (b) create a cumulative sum of 10,000 random Poisson numbers (use a $\lambda = 0.2$) and plot a histogram of it.
 - (c) multiply two square matrices (use uniform random numbers between 0 and 1) and present the result for (a) element-wise and for (b) the dot product; the matrices are 10x10.
2. Create a file that has these lines:

```
1  
2  
a  
3
```
3. Read the file into your notebook and print the lines
4. Read the lines and convert each entry to float and then print without crashing, for the entry 'a' print "'a' is not a number", your python function should work for any input that has numbers and alphabetic characters, thus do not hardcode 'a' or 1, 2, 3.