



Data Science lab2 ☆

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```
[1] print('hello colab: My name is [REDACTED]')  
  
    print("testing jupyter-based notebook in colab")  
  
    print('hello colab')  
  
    print("testing jupyter-based notebook in colab")
```

```
hello colab: My name is [REDACTED]  
testing jupyter-based notebook in colab  
hello colab  
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```



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```
import numpy

import matplotlib.pyplot as plt

from scipy import stats

#Generating data

x = numpy.random.uniform(0.0, 5.0, 250)

print(x)
```

[0.8783178 0.2595958 0.57880758 0.8448086 0.94778292 0.29179178
2.96770909 4.10543003 4.56147497 0.42429198 4.9871412 4.42121976
1.68286676 0.35838844 3.80224175 3.6531515 4.5708292 1.16200301
1.98738741 3.55648785 1.39440675 0.725085 3.50272209 0.46143487
3.9340652 4.67920392 1.52405931 1.24753805 1.09488776 1.07253552
2.55818366 4.15242492 3.51795632 1.49073883 3.92895724 3.05562661
0.21338395 3.25361635 1.27189853 1.09456036 4.79655817 1.74188312
4.87538966 4.87159247 4.7041948 0.48970867 1.7444032 4.38915232
0.62441773 3.01307884 2.34785984 2.43780842 2.70861662 2.05986987
4.63953839 2.62176605 1.53944823 4.75544106 2.82495838 4.04924142
0.49873403 3.21454915 2.1075744 0.2566344 0.17175942 0.53066775
1.12983774 2.65190156 0.74689 4.34932747 4.33364334 0.24654748
2.84756072 2.83248764 3.46588627 2.3994347 3.52790769 1.77014355
4.19419365 1.74426511 2.30756895 0.95509545 0.05026509 3.44601677
2.85411433 1.34906444 0.46784509 1.43089109 3.5504205 0.85722578
0.50310514 3.67226442 0.26787932 0.03769365 4.16645102 0.431592
2.95807439 4.84593631 1.45295326 3.12327424 1.51042582 4.84178147
2.32221006 0.31555997 4.42117929 4.31738154 1.70484114 3.66847588
3.10723967 0.49787331 3.91117578 0.98334641 0.14778103 0.71220053
0.91431453 3.24944021 3.73932564 2.44621973 3.9531459 1.83872439
4.21637858 0.67176263 2.99291634 1.6610258 4.87526952 0.95667187
3.50702127 0.54273339 1.11548715 0.64080577 4.19240252 2.09497977
3.40724218 4.99007953 3.68821062 1.88443901 3.9036385 1.26034018
4.21564241 3.92991661 1.77612747 2.91386646 0.25617063 4.12570361
4.07482279 4.44418179 2.41332219 1.66887831 0.31541287 1.76773188
2.69183093 3.85840922 2.17626151 3.56199634 0.74660934 1.68841417
3.25595103 0.94076467 2.16238382 3.69510144 1.61818357 0.87697629
1.71540609 3.47033001 3.65344298 1.33217327 1.16893065 3.95558711
4.44614137 2.17484002 4.32146372 2.78544624 0.77011482 0.42286431
2.41260306 4.28173358 4.80624252 2.3355479 4.00542546 2.39159815
3.49702887 3.10157739 3.24897249 2.06492467 0.28153902 2.03881431
2.9738336 0.24065214 4.38128753 3.92875003 2.16994571 3.50164428
0.4577471 4.42217034 4.2696319 2.15660859 2.95915239 4.58437229
3.12057531 1.00274822 3.26012043 1.1872394 1.29905552 0.94631975
3.61450664 3.62182876 0.77131211 2.7642788 1.12466044 4.83130629
1.3843187 4.50228041 1.10289582 4.72440512 0.15977777 4.83525515
1.89006209 0.42337855 1.20435137 4.83369794 3.72319004 4.85270642
3.08956725 4.16239272 4.38488621 2.91517287 1.53677084 3.0065775
0.22314177 2.40704553 2.72008888 2.08036645 3.97460766 3.61674102
2.44623927 4.90466147 2.42444135 4.05575701 0.7091019 3.76250706
4.48162865 4.94526137 1.94747514 1.56911569 2.4836118 0.30118896
4.29930245 1.55289195 4.42483651 4.45596209]



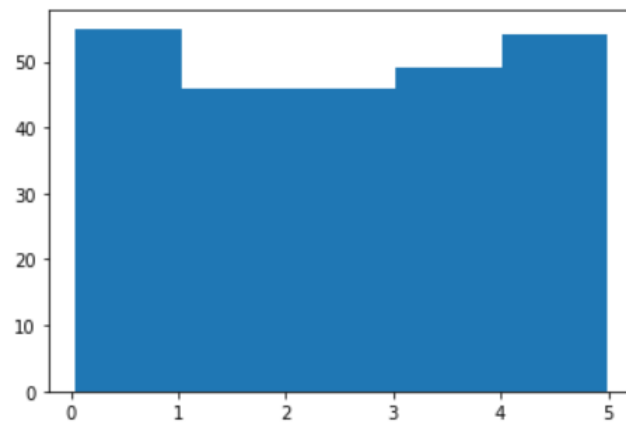
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#print a histogram from the data

```
plt.hist(x,5)
```

```
plt.show()
```





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```
✓ 0s # x = numpy.random.normal(5.0, 1.0, 100000) #100000 values Bell shape at value 5 and stdev1.  
  
x = [5,7,8,7,2,17,2,9,4,11,12,9,6]  
  
y = [99,86,87,88,111,86,103,87,94,78,77,85,86]  
  
#A scatter plot  
  
plt.scatter(x, y)  
  
plt.show()
```

