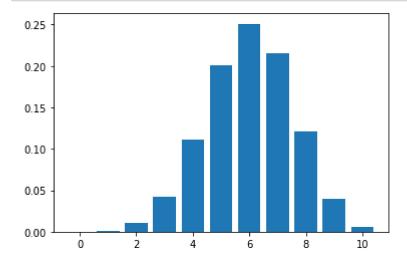
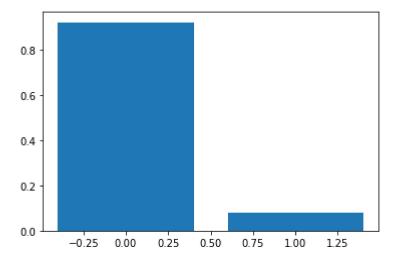
26-07-2023

In [119]: from scipy.stats import binom

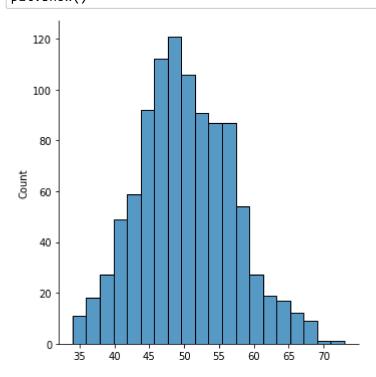
Perform Binomial, Bernoulli, Poisson, Normal, Exponential distributions



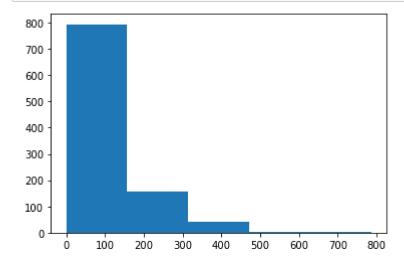
In [121]: from scipy.stats import bernoulli
bd=bernoulli(0.08)
x=[0,1]
plt.bar(x,bd.pmf(x))
plt.show()



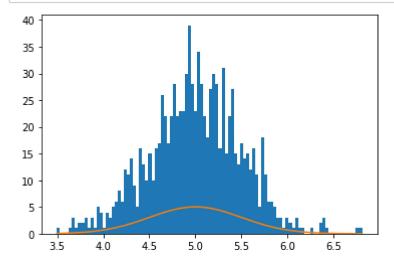
In [123]: from numpy import random
 import matplotlib.pyplot as plt
 import seaborn as sns
 sns.displot(random.poisson(lam=50,size=1000))
 plt.show()



In [124]: import numpy as np
 import matplotlib.pyplot as plt
 exp=np.random.exponential(100,1000)
 count,bins,ignored=plt.hist(exp,5)
 plt.show()



```
In [125]: import matplotlib.pyplot as plt
   import numpy as np
   mu,sigma=5,0.5
   s=np.random.normal(mu,sigma,1000)
   count,bins,ignored=plt.hist(s,100)
   #distribution curve:
   plt.plot(bins,1/sigma*np.sqrt(2*np.pi)*np.exp(-(bins-mu)**2/(2*sigma**2)))
   plt.show()
```



In []: