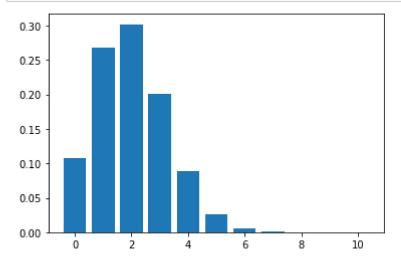
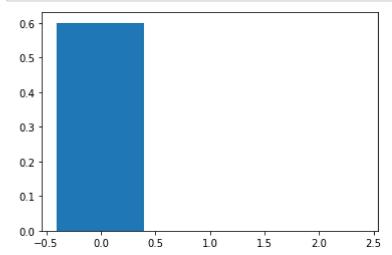
```
In [1]:
    import numpy as np
    import pandas as pd
    from scipy.stats import binom
    import matplotlib.pyplot as plt
```

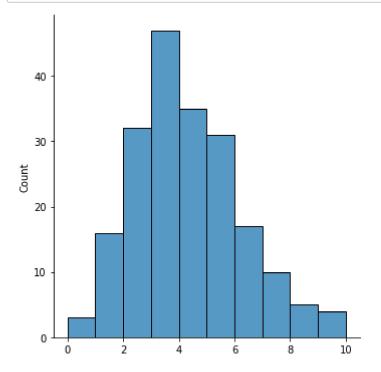
```
In [5]: n=10
    p=0.2
    r_values=list(range(n+1))
    dist=[binom.pmf(r,n,p) for r in r_values]
    plt.bar(r_values,dist)
    plt.show()
```



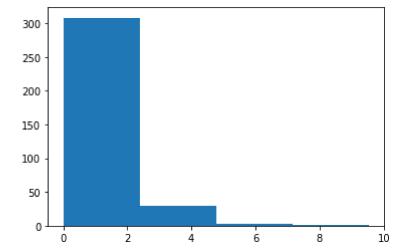
In [8]: from scipy.stats import bernoulli
bd=bernoulli(0.4)
x=[0,2]
plt.bar(x,bd.pmf(x))
plt.show()



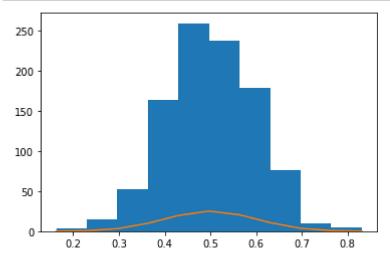
```
In [10]: from numpy import random
   import matplotlib.pyplot as plt
   import seaborn as sns
   sns.displot(random.poisson(lam=4,size=200))
   plt.show()
```



In [12]: import numpy as np
import matplotlib.pyplot as plt
exp=np.random.exponential(1,340)
count,bins,ignored=plt.hist(exp,4)
plt.show()



```
In [13]: import matplotlib.pyplot as plt
import numpy as np
mu,sigma=0.5,0.1
s=np.random.normal(mu,sigma,1000)
count,bins,ignored=plt.hist(s,10)
plt.plot(bins,1/sigma*np.sqrt(2*np.pi)*np.exp(-(bins-mu)**2/(2*sigma**2)))
plt.show()
```



In [ ]: