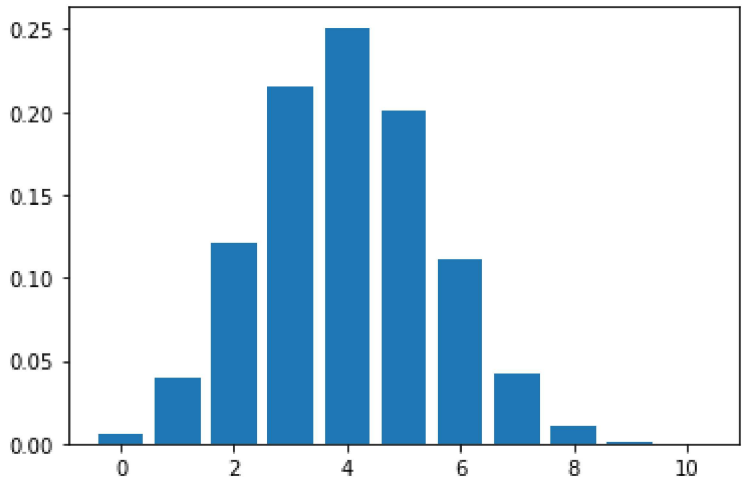
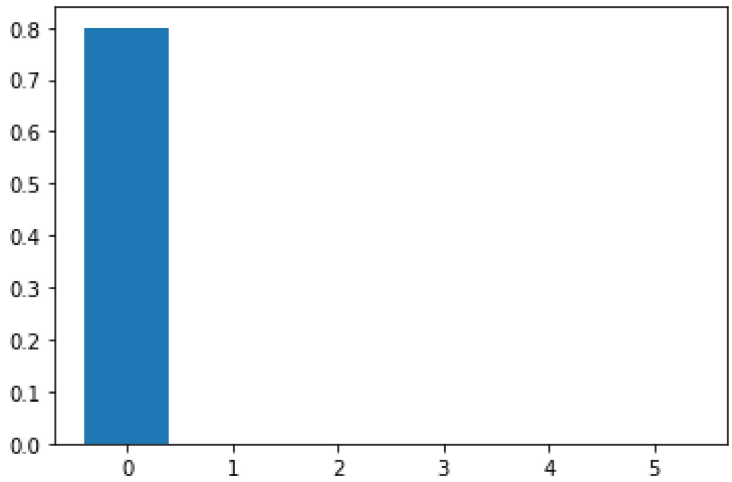
In [2]:
```
from scipy.stats import binom,bernoulli
import matplotlib.pyplot as plt
```

In [3]:
```
n=10
p=0.4
r_values =list(range(n+1))
dist = [binom.pmf(r,n,p) for r in r_values]
plt.bar(r_values,dist)
plt.show()
```

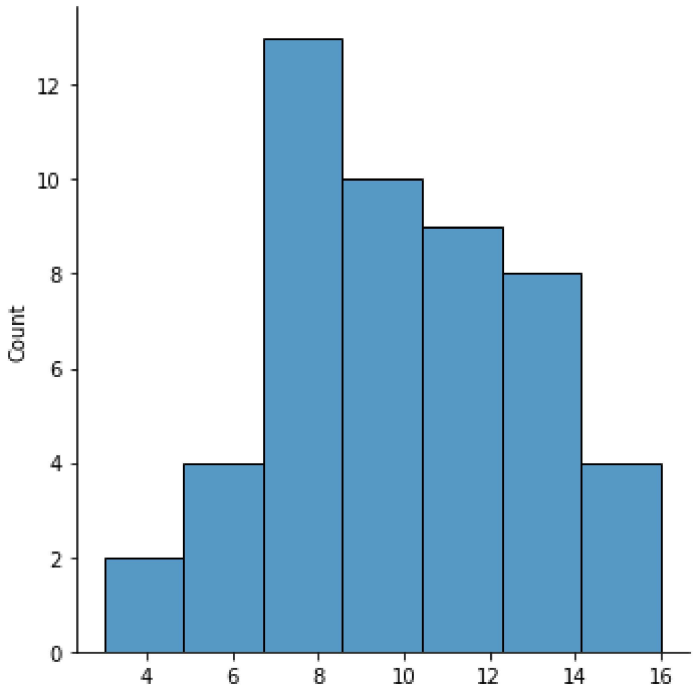


In [5]:
```
from scipy.stats import bernoulli
```

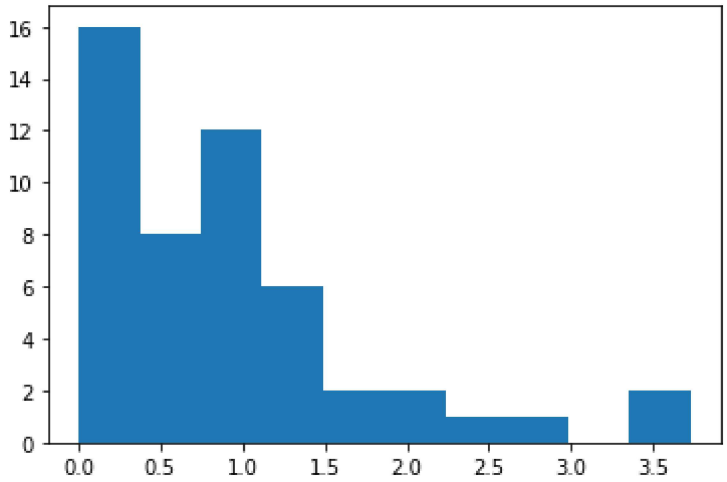
In [8]:
```
bd=bernoulli(0.1)
x=[0,5]
plt.bar(x,bd.pmf(x))
plt.show()
```



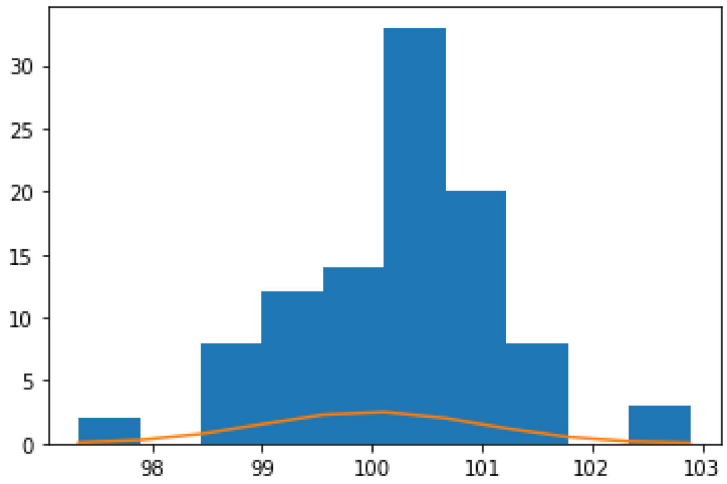
In [11]:
```
from numpy import random
import matplotlib.pyplot as plt
import seaborn as sns
sns.displot(random.poisson(lam=10,size=50))
plt.show()
```



In [15]:
```
import numpy as np
import matplotlib.pyplot as plt
exp =np.random.exponential(1,50)
count,bins,ignored=plt.hist(exp,10)
plt.show()
```



In [19]:
```
nu,sigma=100,1
s=np.random.normal(nu,sigma,100)
count,bins,ignored=plt.hist(s,10)
#distribution cuve
plt.plot(bins,1/sigma*np.sqrt(2*np.pi)*np.exp(-(bins-nu)**2/(2*sigma**2)))
plt.show()
```



In [ ]: