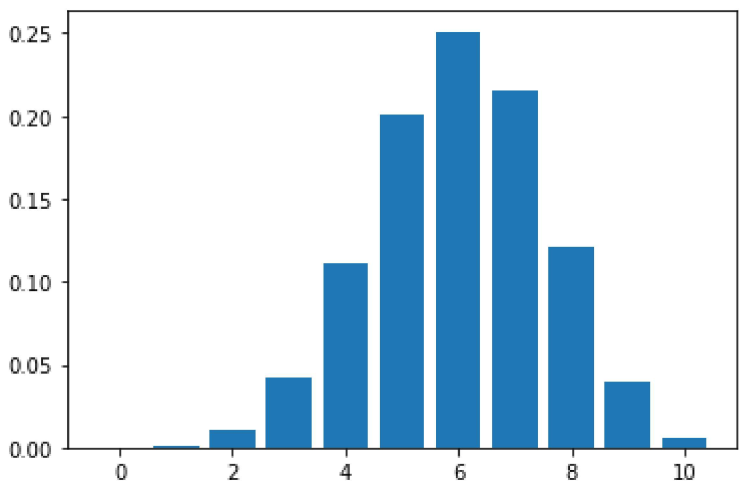
binomial,bernoulli

In [1]:

```
from scipy.stats import binom
import matplotlib.pyplot as plt
```

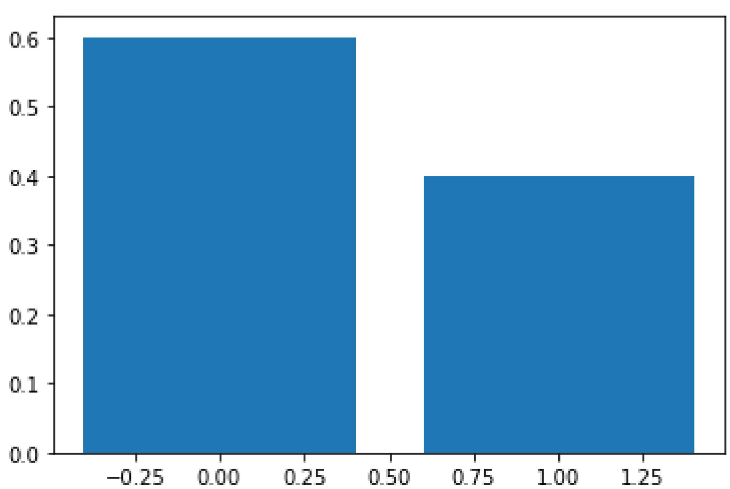
In [2]:

```
n=10
p=0.6
r_values =list(range(n+1))
dis =[binom.pmf(r,n,p) for r in r_values]
plt.bar(r_values,dis)
plt.show()
```



In [5]:

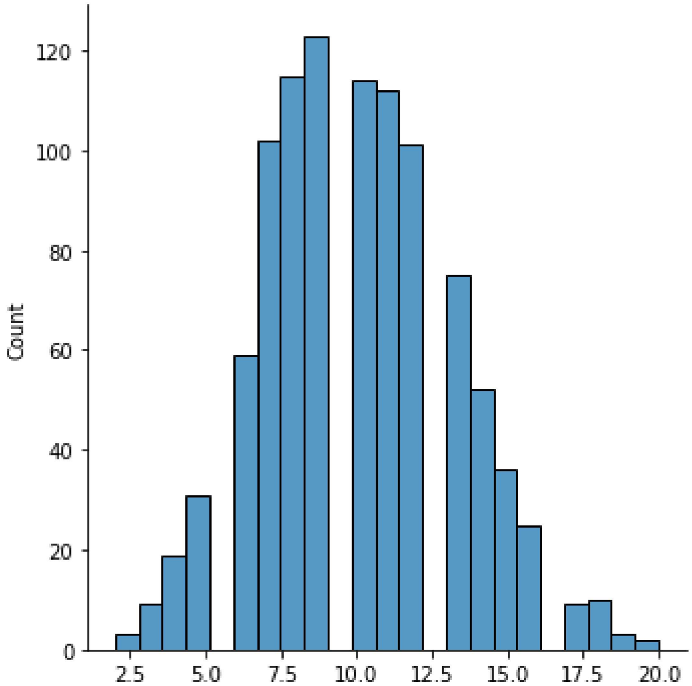
```
from scipy.stats import bernoulli
d=bernoulli(0.4)
x=[0,1]
plt.bar(x,d.pmf(x))
plt.show()
```



poisson

In [6]:

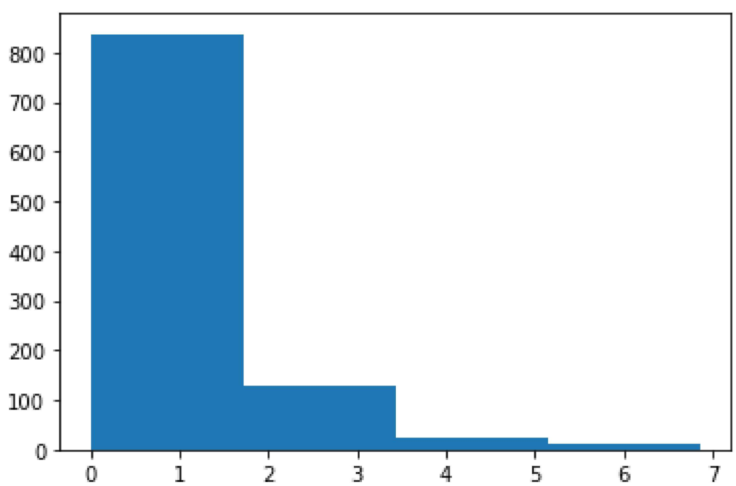
```
from numpy import random
import matplotlib.pyplot as plt
import seaborn as sns
sns.displot(random.poisson(lam=10,size=1000))
plt.show()
```



exponential

In [8]:

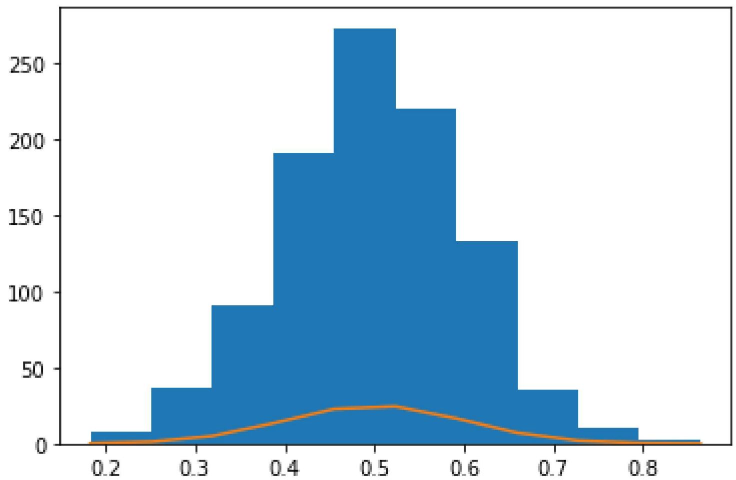
```
import numpy as np
import matplotlib.pyplot as plt
exp=np.random.exponential(1,1000)
count,bins,ignored=plt.hist(exp,4)
plt.show()
```



normal

In [10]:

```
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)
#distribution curve
plt.plot(bins,1/sigma*np.sqrt(2*np.pi)*np.exp(-(bins-mu)**2/(2*sigma**2)))
plt.show()
```



In [ ]: