

In [16]:

```
%matplotlib inline
import matplotlib.pyplot as plt
from IPython.display import Math, Latex
from IPython.core.display import Image
import seaborn as sns
import seaborn as sns
sns.set(color_codes=True)
sns.set(rc={'figure.figsize': (5,5)})
```

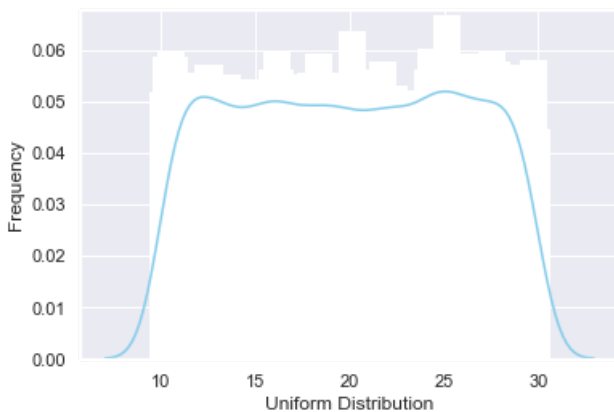
In [14]:

```
#UNIFORM DISTRIBUTION
from scipy.stats import uniform
n=10000
start=10
width=20
data_uniform= uniform.rvs(size=n, loc = start, scale=width)
ax= sns.distplot(data_uniform,
                 bins=100,
                 kde=True,
                 color='skyblue',
                 hist_kws={'linewidth':15,'alpha':1})
ax.set(xlabel='Uniform Distribution',ylabel='Frequency')
[Text(0,0,5,'Frequency'), Text(0,0,5,'Uniform Distribution')]
```

NameError Traceback (most recent call last)

```
<ipython-input-14-8031dfa51811> in <module>
    11         hist_kws={'linewidth':15,'alpha':1})
    12 ax.set(xlabel='Uniform Distribution',ylabel='Frequency')
--> 13 [Text(0,0,5,'Frequency'), Text(0,0,5,'Uniform Distribution')]
```

NameError: name 'Text' is not defined



In [8]:

```
#Bernoulli Distribution
from scipy.stats import bernoulli
data_bern = bernoulli.rvs(size=10000,p=0.6)

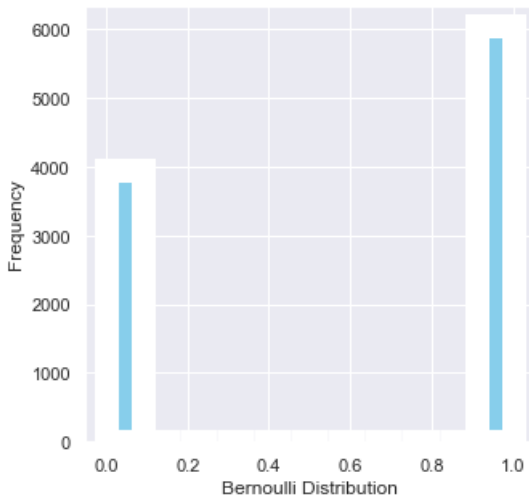
ax= sns.distplot(data_bern,
                 kde=False,
                 color="skyblue",
                 hist_kws={"linewidth": 15,'alpha':1})
ax.set(xlabel='Bernoulli Distribution', ylabel='Frequency')
[Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Bernoulli Distribution')]
```

NameError Traceback (most recent call last)

```
<ipython-input-8-a2594ba5ecf8> in <module>
     7         hist_kws={"linewidth": 15,'alpha':1})
     8 ax.set(xlabel='Bernoulli Distribution', ylabel='Frequency')
```

```
-----> 9 [Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Bernoulli Distribution')]
```

NameError: name 'Text' is not defined



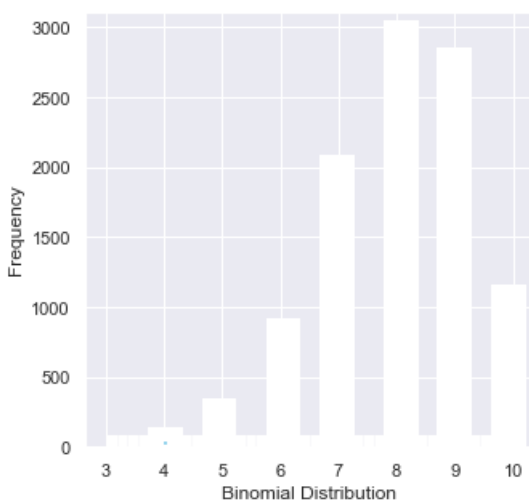
In [10]:

```
#BINOMIAL DISTRIBUTION
from scipy.stats import binom
data_binom = binom.rvs(n=10,p=0.8,size=10000)
ax = sns.distplot(data_binom,
                  kde=False,
                  color='skyblue',
                  hist_kws={"linewidth": 15,'alpha':1})
ax.set(xlabel='Binomial Distribution', ylabel='Frequency')
[Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Binomial Distribution')]
```

NameError Traceback (most recent call last)

```
<ipython-input-10-e0cb61be638c> in <module>
      6             hist_kws={"linewidth": 15,'alpha':1})
      7 ax.set(xlabel='Binomial Distribution', ylabel='Frequency')
-----> 8 [Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Binomial Distribution')]
```

NameError: name 'Text' is not defined



In [13]:

```
#Poisson Distribution
from scipy.stats import poisson
data_poisson = poisson.rvs(mu=3, size=10000)

ax = sns.distplot(data_poisson,
                  bins=30,
```

```

        kde=false,
        color='skyblue',
        hist_kws={"linewidth": 15, 'alpha':1})
ax.set(xlabel='Poisson Distribution', ylabel='Frequency')

[Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Poisson Distribution')]

```

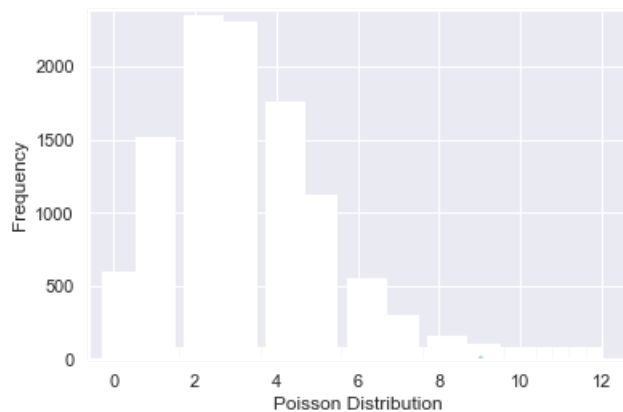
NameError Traceback (most recent call last)

```

<ipython-input-13-d1c128ab3a80> in <module>
    10 ax.set(xlabel='Poisson Distribution', ylabel='Frequency')
    11
--> 12 [Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Poisson Distribution')]
    13

```

NameError: name 'Text' is not defined



In []: