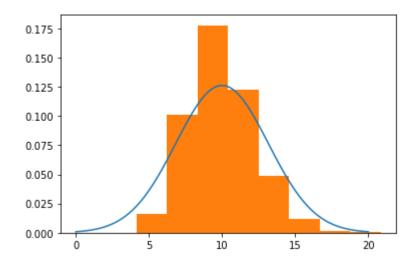
```
In [18]:
         import numpy as np
            import matplotlib as mpl
            import matplotlib.pyplot as plt
            import seaborn as sns
            def get_service_times_blackbox(n):
                # Return service times of n tellers
                rv = expon(scale=10)
                return rv.rvs(size=n)
In [19]:
          ▶ print(get_service_times_blackbox(20))
             [ 1.43762997  4.76287196  5.18890875  13.37856343  8.73393117  4.91481367
              1.90131632 22.79099897 40.71722654 4.72582637 0.53100067 19.75444886
              5.28066227 5.08101482 9.14303588 10.8628755 23.51425576 0.12702145
              8.8309475
                          0.34637471]

    def average get service(n):

In [20]:
                x=sum(get_service_times_blackbox(n))
                return x/n
In [21]:
          ▶ print(average_get_service(20))
            8.17742954888861
In [44]:

    def histogram for average(m):

                x=[0]
                for i in range (0,m):
                    y=average_get_service(20)
                    x.append(y)
                           #plt.hist(x, density=True)
                return x
```



```
In []: N

In []: N
```