```
# Mengimpoprt Library
import numpy as np
import matplotlib.pyplot as plt
```



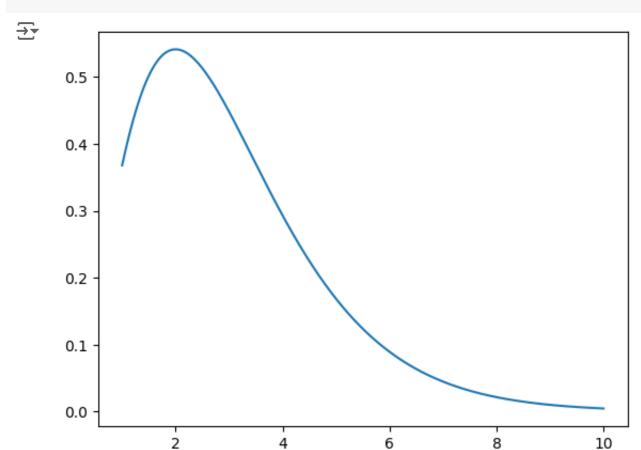
```
#Integral
def func(x):
    return (x**2)*np.exp(-x)
a = 1.0
b = 10.0
```



1.8025164595168974

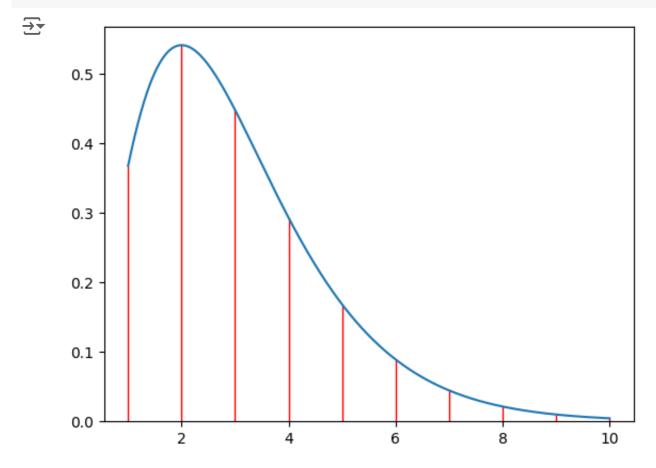
xp =np.linspace(a,b,1000)
plt.plot(xp,func(xp))
plt.show()





```
xp = np.linspace(a,b,1000)
plt.plot(xp,func(xp))

for i in range (n):
   plt.bar(x[i],func(x[i]), align= 'edge',width= 0.000001, edgecolor='red
plt.show()
```



```
xp =np.linspace(a,b,1000)
plt.plot(xp,func(xp))

for i in range (n):
    plt.bar(x[i],func(x[i]),align='edge',width=0.000001, edgecolor='red'

plt.fill_between(x,func(x),color='yellow',alpha=0.5)

plt.show()
```

