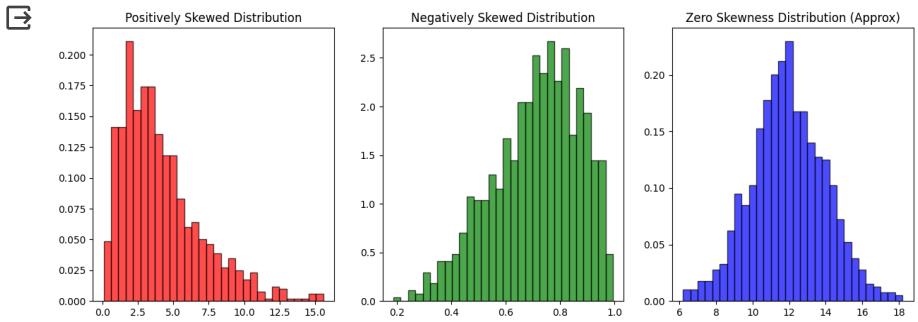
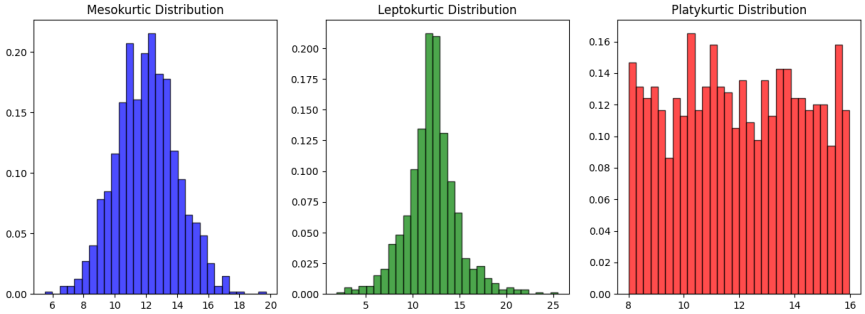
```
import numpy as np
import matplotlib.pyplot as plt

np.random.seed(42)

data_positively_skewed = np.random.gamma(shape=2, scale=2, size=1000)

data_negatively_skewed = np.random.beta(a=2, b=5, size=1000)
data_negatively_skewed = 1 - data_negatively_skewed

data_zero_skewness = np.random.normal(loc=12, scale=2, size=1000)

plt.figure(figsize=(15, 5))

plt.subplot(1, 3, 1)
plt.hist(data_positively_skewed, bins=30, density=True, alpha=0.7, color='red', edgecolor='black')
plt.title('Positively Skewed Distribution')

plt.subplot(1, 3, 2)
plt.hist(data_negatively_skewed, bins=30, density=True, alpha=0.7, color='green', edgecolor='black')
plt.title('Negatively Skewed Distribution')

plt.subplot(1, 3, 3)
plt.hist(data_zero_skewness, bins=30, density=True, alpha=0.7, color='blue', edgecolor='black')
plt.title('Zero Skewness Distribution (Approx)')

plt.show()
```




```
import numpy as np
import matplotlib.pyplot as plt

np.random.seed(42)

data_mesokurtic = np.random.normal(loc=12, scale=2, size=1000)

data_leptokurtic = np.random.laplace(loc=12, scale=2, size=1000)

data_platykurtic = np.random.uniform(low=8, high=16, size=1000)

plt.figure(figsize=(15, 5))

plt.subplot(1, 3, 1)
plt.hist(data_mesokurtic, bins=30, density=True, alpha=0.7, color='blue', edgecolor='black')
plt.title('Mesokurtic Distribution')

plt.subplot(1, 3, 2)
plt.hist(data_leptokurtic, bins=30, density=True, alpha=0.7, color='green', edgecolor='black')
plt.title('Leptokurtic Distribution')

plt.subplot(1, 3, 3)
plt.hist(data_platykurtic, bins=30, density=True, alpha=0.7, color='red', edgecolor='black')
plt.title('Platykurtic Distribution')

plt.show()
```


Mesokurtic Distribution
Leptokurtic Distribution
Platykurtic Distribution