In [ ]:
```
import pandas as pd
df = pd.read_csv('mushrooms.csv')
```

In [ ]:
```
print(df.head())

print(df.describe())
```

In [ ]:
```
import matplotlib.pyplot as plt
import seaborn as sns

class_counts = df['class'].value_counts()

plt.figure(figsize=(8, 6))
sns.countplot(x='class', data=df)
plt.title('Mushroom Class Distribution')
plt.xlabel('Class')
plt.ylabel('Count')
plt.show()
```

In [ ]:
```
cap_shape_counts = df['cap-shape'].value_counts()
plt.figure(figsize=(8, 6))
plt.pie(cap_shape_counts, labels=cap_shape_counts.index, autopct='%1.1f%%')
plt.title('Cap Shape Distribution')
plt.show()
```

In [ ]:
```
plt.figure(figsize=(8, 6))
sns.scatterplot(x='cap-color', y='odor', hue='class', data=df)
plt.title('Cap Color vs. Odor')
plt.xlabel('Cap Color')
plt.ylabel('Odor')
plt.legend(title='Class')
plt.show()
```