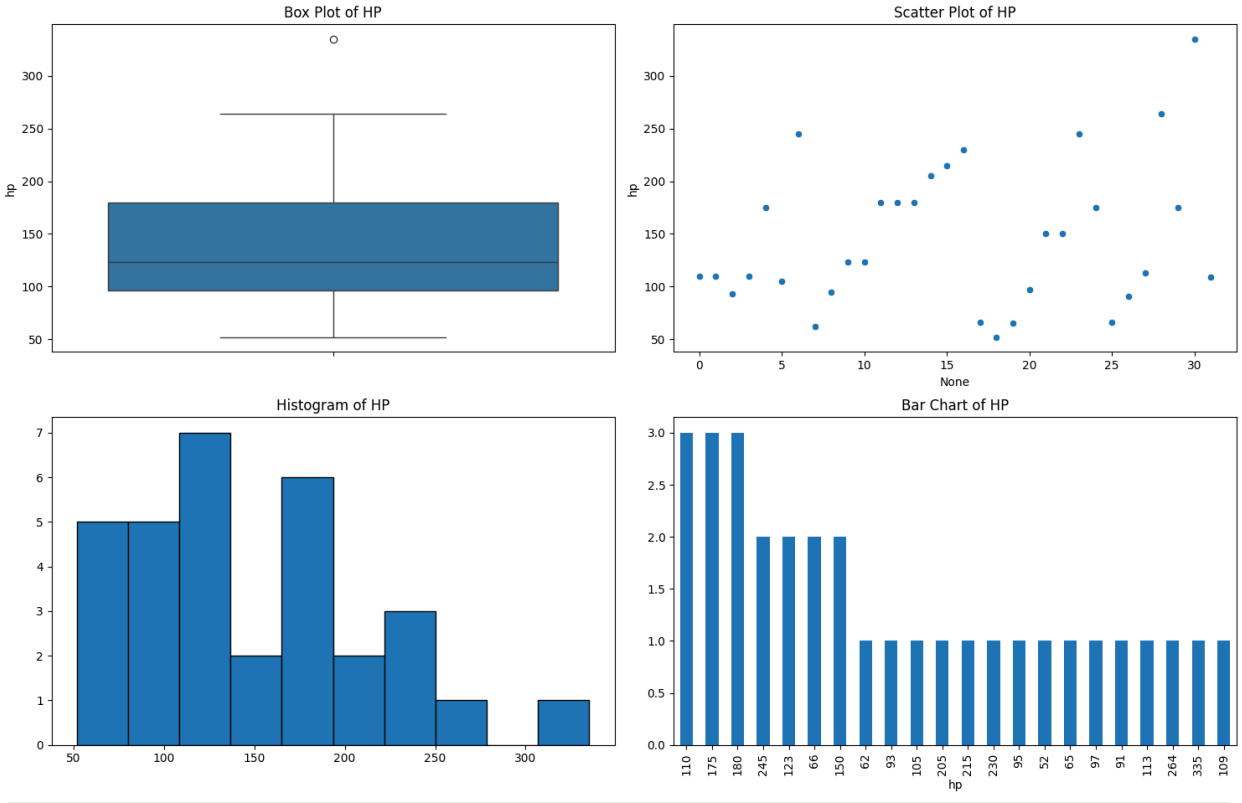
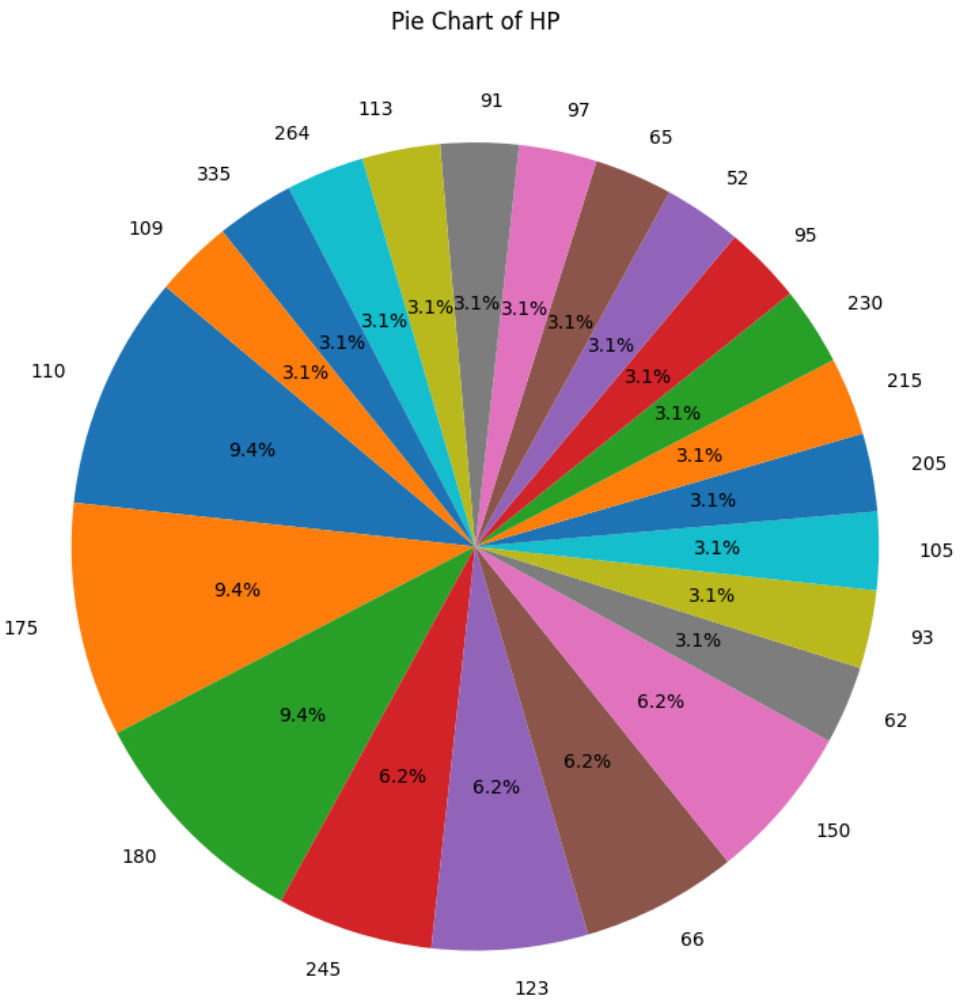
```
import pandas as pd
import requests
import matplotlib.pyplot as plt
import seaborn as sns

def plot_hp_visualizations(df):
plt.figure(figsize=(15, 10))
plt.subplot(2, 2, 1)
sns.boxplot(y=df['hp'])
plt.title('Box Plot of HP')
plt.subplot(2, 2, 2)
sns.scatterplot(x=df.index, y=df['hp'])
plt.title('Scatter Plot of HP')
plt.subplot(2, 2, 3)
plt.hist(df['hp'], bins=10, edgecolor='black')
plt.title('Histogram of HP')
plt.subplot(2, 2, 4)
df['hp'].value_counts().plot(kind='bar')
plt.title('Bar Chart of HP')
plt.tight_layout()
plt.show()

def plot_hp_pie_chart(df):
hp_counts = df['hp'].value_counts()
plt.figure(figsize=(8, 8))
plt.pie(hp_counts, labels=hp_counts.index, autopct='%1.1f%%',
startangle=140)
plt.title('Pie Chart of HP')
plt.show()


def detect_outliers(df):
Q1 = df['hp'].quantile(0.25)
Q3 = df['hp'].quantile(0.75)
IQR = Q3 - Q1
lower_bound = Q1 - 1.5 * IQR
upper_bound = Q3 + 1.5 * IQR
outliers = df[(df['hp'] < lower_bound) | (df['hp'] > upper_bound)]
return outliers

if __name__ == "__main__":
mtcars = pd.read_csv("mtcars.csv")
plot_hp_visualizations(mtcars)
plot_hp_pie_chart(mtcars)
outliers = detect_outliers(mtcars)
print("Outliers in HP:")
print(outliers)
```






```
Outliers in HP:
           model   mpg  cyl   disp   hp  drat    wt  qsec  vs  am  gear  carb
30  Maserati Bora  15.0    8  301.0  335  3.54  3.57  14.6   0   1     5     8
ishadnande@Argos:~/Documents/dev/practicals/PS$
```