```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df = pd.read_csv('heart disease.csv')
missing_values = df.isnull().sum()
print("Missing values in each column:\n", missing_values)

→ Missing values in each column:
     id
                     0
    age
    sex
                     0
    ср
                     0
    trestbps
                     0
                     0
    chol
    fbs
                     0
    restecg
                     0
                     0
    thalach
                     0
    exang
    oldpeak
                     0
                     0
    slope
                     0
    ca
    thal
                     0
    num
                     0
    target_binary
                     0
    dtype: int64
# Assuming the target column is named 'target_binary'
correlations = df.corr()['target_binary'].abs().sort_values(ascending=False)[1:4]
print("Top 3 correlations with target_binary:\n", correlations)
→ Top 3 correlations with target_binary:
     age NaN
          NaN
    sex
          NaN
     ср
    Name: target_binary, dtype: float64
plt.figure(figsize=(8,5))
plt.hist(df['chol'], bins=20, color='skyblue', edgecolor='black')
plt.title('Cholesterol Distribution')
plt.xlabel('Cholesterol (mg/dL)')
plt.ylabel('Frequency')
plt.grid(True)
plt.show()
```



