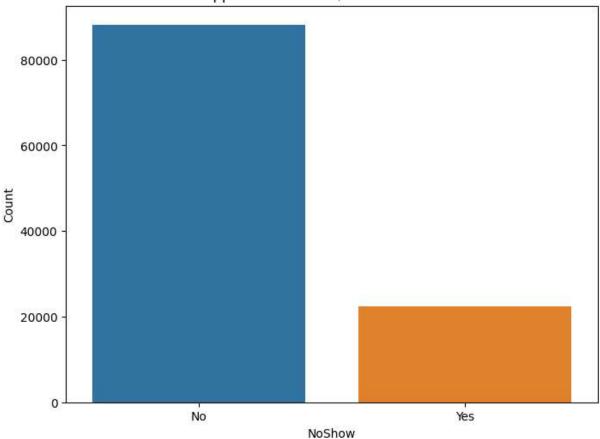
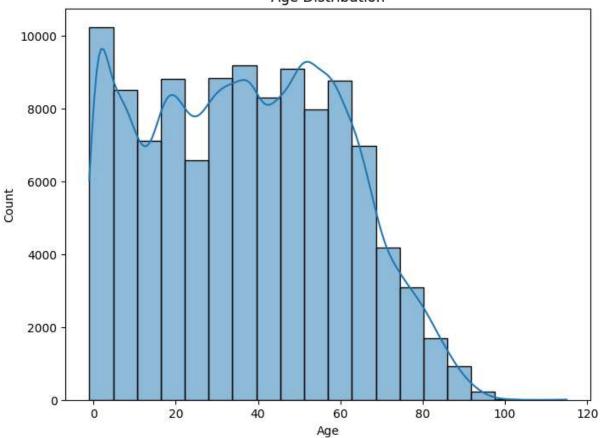
```
In [2]: import pandas as pd
        import matplotlib.pyplot as plt
        import seaborn as sns
In [3]: # Step 1: Import the dataset
        df = pd.read_csv("Data.csv")
In [4]: # Step 2: Modify the date and time to standard format
        df['ScheduledDay'] = pd.to_datetime(df['ScheduledDay'])
        df['AppointmentDay'] = pd.to_datetime(df['AppointmentDay'])
In [5]: # Step 3: Store the days into sch_day and app_day variables (Monday is 0, Sunday is
        df['sch day'] = df['ScheduledDay'].dt.dayofweek
        df['app_day'] = df['AppointmentDay'].dt.dayofweek
In [7]: # Step 4: Rename columns with improper or unusual usage
        # You can use the .rename() method to rename specific columns
        df = df.rename(columns={'No-show': 'NoShow', 'Hipertension': 'Hypertension', 'Handc'
In [8]: # Step 5: Create a bar chart to count categories against the count
        # Example: Counting 'NoShow' categories
        plt.figure(figsize=(8, 6))
        sns.countplot(data=df, x='NoShow')
        plt.title("Appointment Show/No-Show Counts")
        plt.xlabel("NoShow")
        plt.ylabel("Count")
        plt.show()
```

## Appointment Show/No-Show Counts



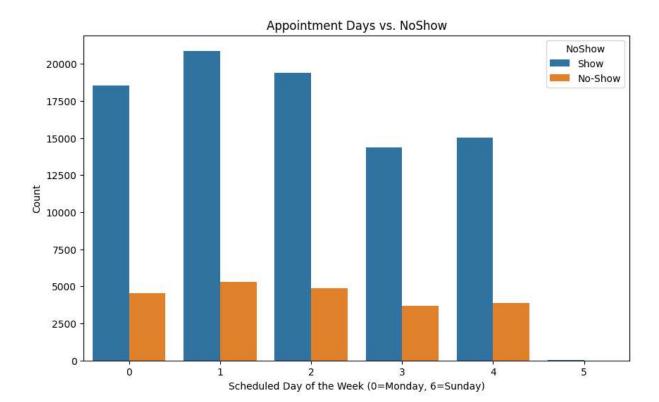
```
In [9]: # Step 6: Plot other charts for insights about the data
# You can explore various types of plots depending on your data and research questi
# Here's an example of a histogram for Age distribution.
plt.figure(figsize=(8, 6))
sns.histplot(data=df, x='Age', bins=20, kde=True)
plt.title("Age Distribution")
plt.xlabel("Age")
plt.ylabel("Count")
plt.show()
```

## Age Distribution

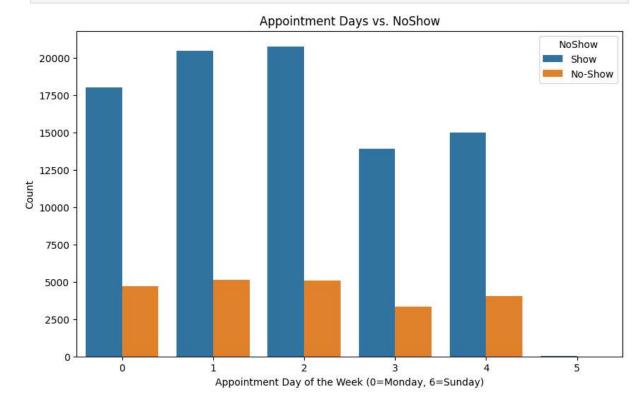


```
In [10]: # You can create other plots based on the columns and insights you want to explore.

# For instance, to visualize appointment days (sch_day and app_day):
plt.figure(figsize=(10, 6))
sns.countplot(data=df, x='sch_day', hue='NoShow')
plt.title("Appointment Days vs. NoShow")
plt.xlabel("Scheduled Day of the Week (0=Monday, 6=Sunday)")
plt.ylabel("Count")
plt.legend(title="NoShow", loc="upper right", labels=["Show", "No-Show"])
plt.show()
```



```
In [11]: plt.figure(figsize=(10, 6))
    sns.countplot(data=df, x='app_day', hue='NoShow')
    plt.title("Appointment Days vs. NoShow")
    plt.xlabel("Appointment Day of the Week (0=Monday, 6=Sunday)")
    plt.ylabel("Count")
    plt.legend(title="NoShow", loc="upper right", labels=["Show", "No-Show"])
    plt.show()
```



In [ ]: