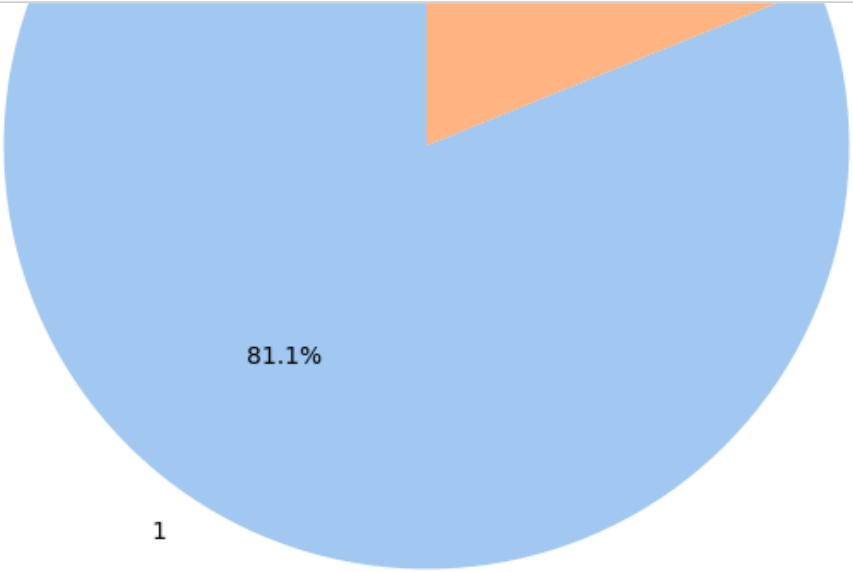
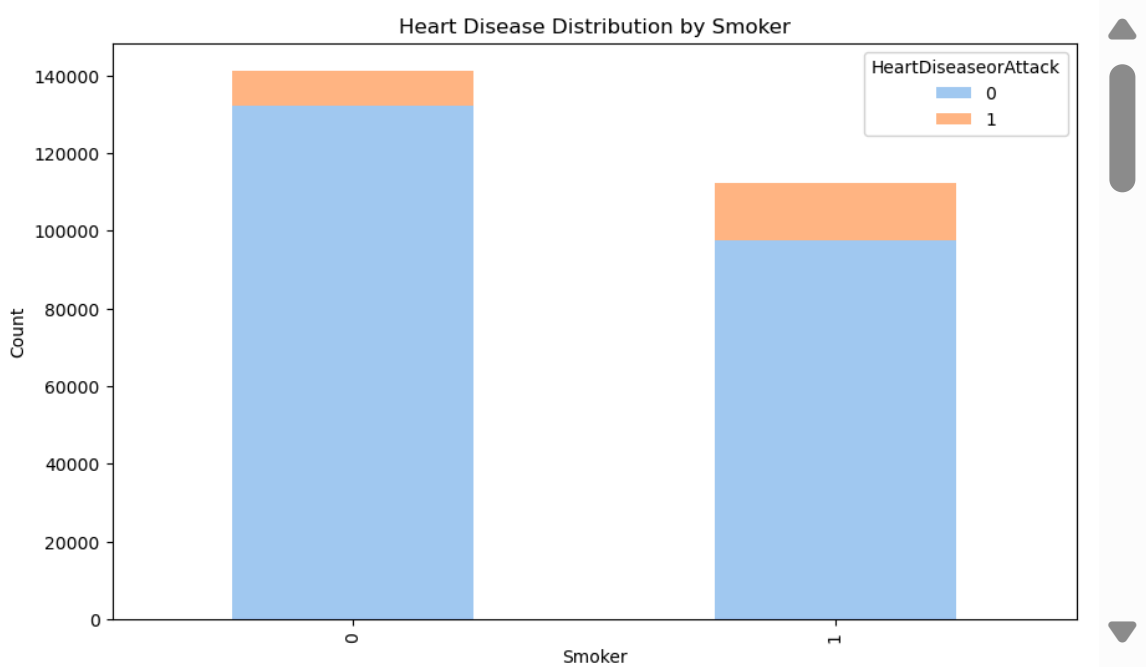
In [8]:
```
import pandas as pd

# Load the dataset
df = ("heart_disease_health_indicators_BRFSS2015 2 (1).csv")
data = pd.read_csv(df)

# Display the first few rows of the dataset to understand its structure
print(data.head())
```

```
   HeartDiseaseorAttack  HighBP  HighChol  CholCheck  BMI  Smoker  Stroke
\
0                     0       1         1          1   40       1       0
1                     0       0         0          0   25       1       0
2                     0       1         1          1   28       0       0
3                     0       1         0          1   27       0       0
4                     0       1         1          1   24       0       0

   Diabetes  PhysActivity  Fruits  ...  AnyHealthcare  NoDocbcCost  GenHl
th  \
0         0             0       0  ...              1            0
5
1         0             1       0  ...              0            1
3
2         0             0       1  ...              1            1
5
3         0             1       1  ...              1            0
2
4         0             1       1  ...              1            0
2

   MentHlth  PhysHlth  DiffWalk  Sex  Age  Education  Income
0        18        15         1    0    9          4       3
1         0         0         0    0    7          6       1
2        30        30         1    0    9          4       8
3         0         0         0    0   11          3       6
4         3         0         0    0   11          5       4

[5 rows x 22 columns]
```

In [10]:
```
# Define a function to plot pie charts
def plot_pie_chart(column):
    plt.figure(figsize=(8, 8))
    data[column].value_counts().plot.pie(autopct='%1.1f%%', startangle=90,
    plt.title(f'Distribution of {column}')
    plt.ylabel('')
    plt.show()

# Plot pie charts for Smoker, PhysActivity, Fruits, and Veggies
plot_pie_chart('Smoker')
plot_pie_chart('PhysActivity')
plot_pie_chart('Fruits')
plot_pie_chart('Veggies')
```



In [12]:
```
# Define a function to plot stacked bar charts
def plot_stacked_bar_chart(column):
    cross_tab = pd.crosstab(data[column], data['HeartDiseaseorAttack'])
    cross_tab.plot(kind='bar', stacked=True, figsize=(10, 6), color=sns.col
    plt.title(f'Heart Disease Distribution by {column}')
    plt.xlabel(column)
    plt.ylabel('Count')
    plt.show()

# Plot stacked bar charts for Smoker, PhysActivity, Fruits, and Veggies
plot_stacked_bar_chart('Smoker')
plot_stacked_bar_chart('PhysActivity')
plot_stacked_bar_chart('Fruits')
plot_stacked_bar_chart('Veggies')
```



In [ ]:
```
```