Module 2: Exploration data analysis of visualization and training a model by given attributes

```
# Import the neccessary packages.
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
                                                                              In [ ]:
# Import the warnings
import warnings
warnings.filterwarnings('ignore')
                                                                              In []:
data = pd.read_csv('brain_stroke.csv')
                                                                              In [ ]:
data.head()
                                                                              In [ ]:
df = data.dropna()
                                                                              In []:
pd.crosstab(df.stroke, df['age'])
                                                                              In [ ]:
df['bmi'].hist(figsize= (7,8), color='green')
plt.title("Bmi distribution")
plt.xlabel("Bmi range")
plt.ylabel("Bmi weight")
                                                                              In [ ]:
sns.distplot(x = df['age'], bins = 10)
                                                                              In [ ]:
sns.barplot(x = df['gender'], y = df['stroke'])
                                                                              In [ ]:
sns.boxplot(x = df['age'], y = df['gender'])
                                                                              In []:
sns.violinplot(y = df['avg_glucose_level'], x =df['stroke'])
                                                                              In [ ]:
sns.heatmap(df.corr(), annot = True, cmap = 'viridis')
                                                                              In [ ]:
                                                                              In []:
```