Write a Pandas program to split the following data frame into groups based on Class and count the number of students in that particular class. Also generate a bar chart based on the result and explain the conclusion.

```
import pandas as pd
import matplotlib.pyplot as plt
# Creating the DataFrame
student_data = pd.DataFrame({
  'school_code': ['s001', 's002', 's003', 's001', 's002', 's004'],
  'class': ['V', 'VI', 'VI', 'VI', 'V', 'VI'],
  'name': ['Alberto Franco', 'Gino Mcneill', 'Ryan Parkes', 'Eesha Hinton', 'Gino Mcneill',
'David Parkes'],
  'age': [12, 12, 13, 13, 14, 12],
  'height': [173, 192, 186, 167, 151, 159],
  'weight': [35, 32, 33, 30, 31, 32],
  'address': ['street1', 'street2', 'street3', 'street1', 'street2', 'street4']
})
# Grouping the data by 'class' and counting the number of students in each class
class_counts = student_data.groupby('class')['name'].count()
# Displaying the result
print("Number of students in each class:")
print(class_counts)
# Generating a bar chart
```

```
class_counts.plot(kind='bar', color='skyblue', edgecolor='black')
plt.title('Number of Students in Each Class')
plt.xlabel('Class')
plt.ylabel('Number of Students')
plt.xticks(rotation=0)
plt.show()

# Output=>

Number of students in each class:
class
V 2
VI 4
Name: name, dtype: int64
```

