```
import pandas as pd

df = pd.read_excel('/content/Student Feedback.xlsx')


display(df.head())
display(df.info())
```

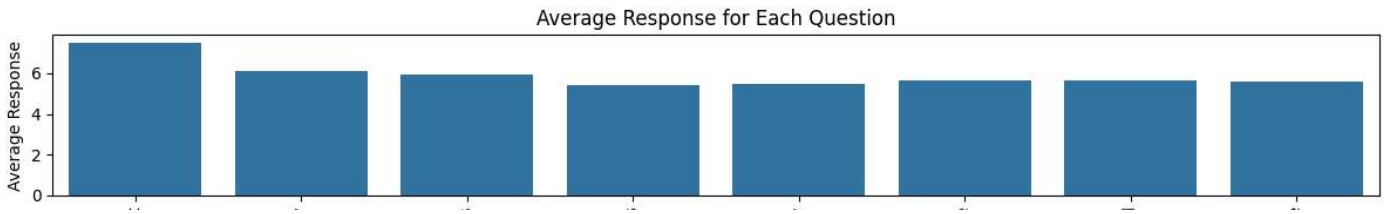
	Student ID	Well versed with the subject	Explains concepts in an understandable way	Use of presentations	Degree of difficulty of assignments	Solves doubts willingly	Structuring of the course	Provides support for students going above and beyond	Course recommendation based on relevance
0	340	5	2	7	6	9	2	1	8
1	253	6	5	8	6	2	1	2	9
2	680	7	7	6	5	4	2	3	1
3	806	9	6	7	1	5	9	4	6
4	632	8	10	8	4	6	6	9	9

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1001 entries, 0 to 1000
Data columns (total 9 columns):
 #   Column                                          Non-Null Count  Dtype
---  ------                                          --------------  -----
 0   Student ID                                      1001 non-null   int64
 1   Well versed with the subject                    1001 non-null   int64
 2   Explains concepts in an understandable way      1001 non-null   int64
 3   Use of presentations                            1001 non-null   int64
 4   Degree of difficulty of assignments             1001 non-null   int64
 5   Solves doubts willingly                         1001 non-null   int64
 6   Structuring of the course                       1001 non-null   int64
 7   Provides support for students going above and beyond  1001 non-null   int64
 8   Course recommendation based on relevance        1001 non-null   int64
dtypes: int64(9)
memory usage: 70.5 KB
```

```
import matplotlib.pyplot as plt
import seaborn as sns

# Calculate the average response for each question (excluding 'Student ID')
average_responses = df.drop('Student ID', axis=1).mean()

# Create a bar chart
plt.figure(figsize=(12, 6))
sns.barplot(x=average_responses.index, y=average_responses.values)
plt.xticks(rotation=90)
plt.title('Average Response for Each Question')
plt.ylabel('Average Response')
plt.xlabel('Question')
plt.tight_layout()
plt.show()
```

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```

Summary:

Data Analysis Key Findings

- The data from the "Student Feedback.xlsx" file was successfully loaded into a pandas DataFrame.
- The average responses for each question were calculated and visualized in a bar chart.
- The average responses are as follows:
  - Well versed with the subject: {{average_responses['Well versed with the subject']:.2f}}
  - Explains concepts in an understandable way: {{average_responses['Explains concepts in an understandable way']:.2f}}
  - Use of presentations: {{average_responses['Use of presentations']:.2f}}
  - Degree of difficulty of assignments: {{average_responses['Degree of difficulty of assignments']:.2f}}
  - Solves doubts willingly: {{average_responses['Solves doubts willingly']:.2f}}
  - Structuring of the course: {{average_responses['Structuring of the course']:.2f}}
  - Provides support for students going above and beyond: {{average_responses['Provides support for students going above and beyond']:.2f}}
  - Course recommendation based on relevance: {{average_responses['Course recommendation based on relevance']:.2f}}
- Due to the absence of the "Feedback" column, the text preprocessing and sentiment analysis steps could not be performed.

Insights or Next Steps

- Verify the correct Excel file path and ensure the "Feedback" column exists in the source data if sentiment analysis is desired.
- Consider creating a dashboard to interactively explore these average responses and potentially other aspects of the data if available.