

```
# 1.) Importing the necessary files.
```

```
import pandas as pd
```

```
# 2.) Loading dataset.
```

```
df = pd.read_csv("/content/Student_performance_data_.csv")
```

```
# 3.) Information about the dataset.
```

```
print("First 5 rows of the dataset.")
print(df.head())
```

```
print("Shape of the dataset i.e. Rows and Columns.")
print(df.shape)
```

```
print("Name of the columns.")
print(df.columns)
```

```
print("Dataset info.")
print(df.info())
```

```
print(df.head(10))
```

```
print("Statistical summary.")
print(df.describe())
```

```
print("Missing values in each column.")
print(df.isnull().sum())
```

```
print("Correlation between features.")
print(df.corr(numeric_only=True))
```

```
First 5 rows of the dataset.
```

	StudentID	Age	Gender	Ethnicity	ParentalEducation	StudyTimeWeekly	\
0	1001	17	1	0	2	19.833723	
1	1002	18	0	0	1	15.408756	
2	1003	15	0	2	3	4.210570	
3	1004	17	1	0	3	10.028829	
4	1005	17	1	0	2	4.672495	

	Absences	Tutoring	ParentalSupport	Extracurricular	Sports	Music	\
0	7	1	2	0	0	1	
1	0	0	1	0	0	0	
2	26	0	2	0	0	0	
3	14	0	3	1	0	0	
4	17	1	3	0	0	0	

	Volunteering	GPA	GradeClass
0	0	2.929196	2.0
1	0	3.042915	1.0
2	0	0.112602	4.0
3	0	2.054218	3.0
4	0	1.288061	4.0

```
Shape of the dataset i.e. Rows and Columns.
(2392, 15)
```

```
Name of the columns.
```

```
Index(['StudentID', 'Age', 'Gender', 'Ethnicity', 'ParentalEducation',
      'StudyTimeWeekly', 'Absences', 'Tutoring', 'ParentalSupport',
      'Extracurricular', 'Sports', 'Music', 'Volunteering', 'GPA',
      'GradeClass'],
      dtype='object')
```

```
Dataset info.
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 2392 entries, 0 to 2391
```

```
Data columns (total 15 columns):
```

#	Column	Non-Null Count	Dtype
0	StudentID	2392 non-null	int64
1	Age	2392 non-null	int64
2	Gender	2392 non-null	int64
3	Ethnicity	2392 non-null	int64
4	ParentalEducation	2392 non-null	int64
5	StudyTimeWeekly	2392 non-null	float64
6	Absences	2392 non-null	int64
7	Tutoring	2392 non-null	int64
8	ParentalSupport	2392 non-null	int64
9	Extracurricular	2392 non-null	int64
10	Sports	2392 non-null	int64
11	Music	2392 non-null	int64
12	Volunteering	2392 non-null	int64
13	GPA	2392 non-null	float64
14	GradeClass	2392 non-null	float64

```
dtypes: float64(3), int64(12)
memory usage: 280.4 KB
None
```

	StudentID	Age	Gender	Ethnicity	ParentalEducation	StudyTimeWeekly	\
0	1001	17	1	0	2	19.833723	
1	1002	18	0	0	1	15.408756	
2	1003	15	0	2	3	4.210570	