Importing necessary libraries

In [ ]:
```
import pandas as pd
import statistics as stat
import numpy as np
import math
```

Loading dataset

In [ ]:
```
df = pd.read_csv("Dataset/Student_Performance2.csv")
df.sample(7)
```

Out[ ]:

	Hours Studied	Previous Scores	Extracurricular Activities	Sleep Hours	Sample Question Papers Practiced	Performance Index
6688	5	96	No	6	2	81.0
2459	2	76	No	9	5	53.0
4596	1	92	Yes	6	7	67.0
4555	5	51	No	7	5	37.0
7009	4	90	Yes	8	3	72.0
5564	3	43	Yes	6	1	19.0
1717	6	61	Yes	5	4	48.0

Student sleep hour

In [ ]:
```
print("Mean: ", df["Sleep Hours"].mean())
print("Median: ", df["Sleep Hours"].median())
print("Mode: ", df["Sleep Hours"].mode())
print("Variance: ", df["Sleep Hours"].var())
print("Standard Deviation: ", df["Sleep Hours"].std())
```

```
Mean:  6.5306
Median:  7.0
Mode:  0    8
Name: Sleep Hours, dtype: int64
Variance:  2.875951235123512
Standard Deviation:  1.6958629765177113
```

Student study hour

In [ ]:
```
print("Mean: ", df["Hours Studied"].mean())
print("Median: ", df["Hours Studied"].median())
print("Mode: ", df["Hours Studied"].mode())
print("Variance: ", df["Hours Studied"].var())
print("Standard Deviation: ", df["Hours Studied"].std())
```

```
Mean:  4.9929
Median:  5.0
Mode:  0    1
Name: Hours Studied, dtype: int64
Variance:  6.7045200420042015
Standard Deviation:  2.5893087961856156
```

Student previous score

In [ ]:
```
print("Mean: ", df["Previous Scores"].mean())
print("Median: ", df["Previous Scores"].median())
print("Mode: ", df["Previous Scores"].mode())
print("Variance: ", df["Previous Scores"].var())
print("Standard Deviation: ", df["Previous Scores"].std())
```

```
Mean:  69.4457
Median:  69.0
Mode:  0    54
Name: Previous Scores, dtype: int64
Variance:  300.7849300030003
Standard Deviation:  17.343152251047105
```