In [1]:

```
# Below are the scores obtained by a student in tests
# 34,36,36,38,38,39,39,40,40,41,41,41,41,42,42,45,49,56
    # 1)    Find mean, median, variance, standard deviation.
    # 2)    What can we say about the student marks?

```

In [5]:

```
import numpy as np
import pandas as pd
```

In [2]:

```
student_marks=[34,36,36,38,38,39,39,40,40,41,41,41,41,42,42,45,49,56]
student_marks
```

Out[2]:

```
[34, 36, 36, 38, 38, 39, 39, 40, 40, 41, 41, 41, 41, 42, 42, 45, 49, 56]
```

In [8]:

```
# mean obtained from student marks
np.mean(student_marks)
```

Out[8]:

```
41.0
```

In [10]:

```
# median obtained from student marks
np.median(student_marks)
```

Out[10]:

```
40.5
```

In [12]:

```
# variance obtained from student marks
np.var(student_marks)
```

Out[12]:

```
24.11111111111111
```

In [13]:

```
# Standard deviation of students marks
np.std(student_marks)
```

Out[13]:

```
4.910306620885412
```

In [25]:

```
dataframe = pd.Series([34, 36, 36, 38, 38, 39, 39, 40, 40, 41, 41, 41, 41, 42, 42, 45,
dataframe
```

Out[25]:

```
0     34
1     36
2     36
3     38
4     38
5     39
6     39
7     40
8     40
9     41
10    41
11    41
12    41
13    42
14    42
15    45
16    49
17    56
dtype: int64
```

In [26]:

```
dataframe.describe()
```

Out[26]:

```
count    18.000000
mean     41.000000
std       5.052664
min      34.000000
25%      38.250000
50%      40.500000
75%      41.750000
max      56.000000
dtype: float64
```

END