

## Solution

- 1 **Example:** We have data on the production of two companies A and B, while the observed production characteristic is given in different units, assess in which company the production is more even (less variable).

```
1 clear,clc,close all
2
3 x=[2; 4; 4; 6; 4; 8; 4; 2; 4; 8];
4 y=[12; 12; 10; 16; 18; 8; 8; 12; 10; 14];
5 s=std([x y]) % comparing standard deviations
6 cv=std([x y])./mean([x y])*100 % comparing coefficient of ...
   variation in case of different units
```

```
s =
    2.1187    3.2660
cv =
    46.0587    27.2166
```

Comparing standard deviations, we state that in B there is greater variability, but by comparing coefficient of variation we find that there is mostly variability in A, and we agree with this conclusion.