

In [1]: *# The Moving Average Sequence with 7 values*

```
import numpy as np

dataset = [25, 35, 45, 55, 65, 75, 85]

def movingaverage(values, window):
    weights = np.repeat(1.0, window)/window
    smas = np.convolve(values, weights, 'valid')
    return smas

print(movingaverage(dataset, 4))
```

[280. 350. 420. 490.]

In [2]: *# Moving Average in an array over a window, window=3*

```
import numpy as np

dataset = [3, 5, 7, 2, 8, 10, 11, 65, 72, 81, 99, 100, 150]

def movingaverage(values, window):
    weights = np.repeat(1.0, window)/window
    smas = np.convolve(values, weights, 'valid')
    return smas

print(movingaverage(dataset, 3))
```

```
[ 5.          4.66666667  5.66666667  6.66666667  9.66666667
 28.66666667 49.33333333 72.66666667 84.          93.33333333
116.33333333]
```

In [ ]: