

Exercise on Python Notebooks

Recreate the following in the Python notebook.

The screenshot shows a Jupyter Notebook interface with a toolbar at the top. The notebook content is as follows:

- Head in size 1.**

LE 12 - Task 2: Some simple Statistics tasks
- Bold font.**

Table of Contents

 - 1. Arithmetic mean
 - 2. Mean Squared Error
 - A. Bias of an estimator
 - B. Variance of an estimator
- Use a list.**

1. The Arithmetic Mean
- Use a Latex formula.**
$$Mean(x) = \sum_{i=1}^n x_i$$
- Embedded a formatted code block:

```
x=[1,3,9,4]
x_bar=1/4*sum(x)
```
- Python code cell.**

```
In [28]: #Actual Python Calculation:
x=[1,3,9,4]
x_bar=1/len(x)*sum(x)
x_bar
```

Out[28]: 4.25
- Use a Latex formula.**

2. Mean Squared Error

$$MSE(x) = bias^2(x) + Var^2(x)$$
- Link.** For further information see: <http://www.statisticshowto.com/mean-squared-error/>