Example usage of py2note

This file illustrates the use of py2note with a simple code example. We can write extensive documentation in comments here in the file and use any rst-directive that we need. For example, we can use the math directive,

$$F(x) = \int_{-\infty}^{x} f(x)\ \mathrm{d}x$$

to create formulas. In contrast to the way they look in the code, these formulas are set using the respective rst-processor and can look quite fine. Yet, we can also write code

```
>>> x = 2.
>>> y = x + 3
```

Finally, we can obviously use any function that we defined before the starting statement, such as

```
>>> an_ignored_function()
```

Furthermore, continued lines will be recognized and printed as continued docstrings

```
>>> for i in xrange(5):
...     print i
```

Now, one other point is that in some cases, we want to include one of the above functions in the resulting rst-document. This can be done by using the rst-autodoc functionality, but requires sphinx as a translator and is therefore not illustrated here.

You can now run py2note on this file to generate an rst file and afterwards, you can for example convert the rst file to a pdf using rst2pdf:

```
rst2pdf example.rst
```