

Exercise 3: Calling functions

In this exercise you will write your answers in MS word. Name your file as “**exercise3.docx**”

Built-in functions are those that do not require you to import a module to use them. You can find a list of them in the Python documentation:

<http://docs.python.org/library/functions.html>

Note that the casting and typing operations are listed as functions. While this is true in Python, this is not always the case in other programming languages. That is why we treated those functions specially in the last lab. The table on the next page uses several built in functions.

Fill out the table. For each expression, first compute the expression in your head, without Python. Write the result in the second column, or “?” if you have no idea. Next use Python to compute the expression. If the answers are different, try to explain why in the last column.

| Expression | Expected Value | Calculated Value | Reason for calculated value |
|--------------------------------|----------------|------------------|---------------------------------|
| min(25, 4) | 4 | 4 | |
| max(25, 4) | 25 | 25 | |
| min(25, max(27, 4)) | 25 | 25 | |
| abs(25) | 25 | 25 | |
| abs(-25) | -25 | 25 | abs omits the sign of the value |
| round(25.6) | 26 | 26 | |
| round(-25.6) | -26 | -26 | |
| round(25.64, 0) | 26 | 26.0 | |
| round(25.64, 1) | 25.6 | 25.6 | |
| round(25.64, 2) | 25.64 | 25.64 | |
| len('Truth') | 5 | 5 | |
| len('Truth ' + 'is ' + 'best') | 13 | 13 | |