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**Assignment: Difference between**

**Python3 and Python2**

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| **Division of Integers** | Whenever two integers are divided, you get a float value | When two integers are divided, you always provide integer value. |
| **Unicode** | In Python 3, default storing of strings is Unicode. | To store Unicode string value, you require to define them with “u”. |
| **Syntax** | The syntax is simpler and easily understandable. | The syntax of Python 2 was comparatively difficult to understand. |
| **Rules of ordering Comparisons** | In this version, Rules of ordering comparisons have been simplified. | Rules of ordering comparison are very complex. |
| **Iteration** | The new Range() function introduced to perform iterations. | In Python 2, the xrange() is used for iterations. |
| **Exceptions** | It should be enclosed in parenthesis. | It should be enclosed in notations. |
| **Leak of variables** | The value of variables never changes. | The value of the global variable will change while using it inside for-loop. |
| **Backward compatibility** | Not difficult to port python 2 to python 3 but it is never reliable. | Python version 3 is not backwardly compatible with Python 2. |
| **Library** | Many recent developers are creating libraries which you can only use with Python 3. | Many older libraries created for Python 2 is not forward-compatible. |