Difference between Python 2 and python 3

1.Expressions:

his is what you’d type to get an evaluated expression in Python 2:

|  |  |
| --- | --- |
| 1 | X = raw\_input ("enter some values) |

But in Python 3, you’d have to type this:

|  |  |
| --- | --- |
| 1 | X = input ("enter some values") |

2.Syntactical Difference

In Python 2, print is a statement that does not need a parenthesis. In Python 3, print is a function and the values need to be written in parenthesis.

**Python 2**

Input:

|  |  |
| --- | --- |
| 1  2 | 1 <> 1.0  print "False" |

**Python 3**

Input:

|  |  |
| --- | --- |
| 1  2  3 | 1 != 1.0  print (False)1 != 1.0  print (False) |

**Python 2**

* print functional brackets optional.
* Prefix string with u to make unicode string.
* Division of integers always return integer – 5/2=2.
* Raw\_input () reads string.
* input() evaluates data read.
* generator .next().

**Python 3**

* print functional brackets compulsory.
* String unicode by default.
* Division of integers may result in float – 5/2=2.5.
* Raw\_input() not available.
* Input always reads string.
* Next (generator).
* Py2 to py3 utility.
* Dictionary .keys() and .values() returns a view not a list.
* Can no longer use comparison operators on non natural comparisons.  
  Eg. None < None  will raise a TypeError instead of returning false.
* Percent (%) string formatting operator is  deprecated use the .format() Function or concatenation