ASSIGNMENT 2

1. Floor division in python 2 and 3?

For division / operator is used. 3/2 gives output 1 in both 2 and 3 version of python. And 3/2.0 gives 1.5 float in both the versions. Floor divisions are rounding of to the nearest left of the number after division. In python 2, when 2 numbers are 2 integers are divided it results in an integer. But in python 3, it results in a floating type. But for floor divisions the result of python 3 is only a floating type when when of the given integers is a float otherwise it is an integer.

Eg: Python 3: 15/3 => 5.0

Python 3 floor division: 15/3.0 or 15.0/3 => 5.0 ;

15/3 => 5

In python 2 the result is the same irrespective of floor or simple division.

1. Precedence of Logical and bitwise operators:

Logical operators: AND, NOT, OR

Precedence: 1) NOT

2) AND

3) OR

Bitwise operators: Bitwise AND, Bitwise OR, Bitwise Negation, Bitwise, XOR, Shift right, Shift left,

Precedence: 1) Bitwise NOT

2) Shifts

3) Bitwise AND

4) Bitwise XOR

5) Bitwise OR

3) Size of data types in python:

Boolean: 8 bits.

Int: 64 bits

Float: 64 bits and extended.

Double: -NO DOUBLE

String: 8 bit positive multiples.