Assignment 7 -21 May

Python Basic – 2

**Q.1. Create two int type variables, apply addition, subtraction, division and multiplications**

**and store the results in variables. Then print the data in the following format by calling the**

**variables:**

**First variable is \_\_ & second variable is \_\_.**

**Addition: \_\_ + \_\_ = \_\_**

**Subtraction: \_\_ - \_\_ = \_\_**

**Multiplication: \_\_ \* \_\_ = \_\_**

**Division: \_\_ / \_\_ = \_\_**

**Q.2. What is the difference between the following operators:**

**(i) ‘/’ & ‘//’**

Both are arithmetic operator. In which “/” performs normal division whose output is float number and “//” is floor division which provides output as whole number.

**(ii) ‘\*\*’ & ‘^’**

“\*\*” is a exponentiation operator which used as below

X=2

X1=X\*\*3

Print(X1)

# result will be 8

“^” is bitwise XOR operator which write each number in binary and then take XOR of it

X = 5

Y = 3

W= X^Y

Print(W)

# result will be 6

**Q.3. List the logical operators.**

Logical operators are as below

1. and – will return true if both the statement are true
2. or - will return true if one statement are true
3. not – will reverse the result. Returns false if the result is true

**Q.4. Explain right shift operator and left shift operator with examples.**

>> right shift operator are in which left operand’s value is moved toward right by the number of bits specified by the right operand

A = 10 #1010 -> 101000

Res = A>>2 #0001100 (which is binary of 2)

Print(Res)

# 2 will be the output

<< left shift operators are in which left operand’s value is moved toward left by the number of bits specified by the right operand.

A = 10 #1010 -> 101000

Res = A<<2 #110010000 (which is binary of 40)

Print(Res)

# 40 will be the output

**Q.5. Create a list containing int type data of length 15. Then write a code to check if 10 is**

**present in the list or not.**