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 \_a =10 \_ & second variable is \_b =5\_.

Addition: \_\_ \_\_ = \_\_

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

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

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

Ans = a = 1 b = 5

addition = a + b

substraction = a - b

multiplication = a \* b

division = a / b

print(f"First varibale is {a} & second varaible is {b}")

print(f"Addtion: {a} + {b} = {addition}")

print(f'Substraction : {a} - {b} = {substraction}')

print(f"multiplication: {a} \* {b} = {multiplication}")

print(f"division: {a} / {b} = {division}")

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

1. ‘/’ & ‘//’
2. ‘\*\*’ & ‘^’

Ans - ‘/ ’this is division operator to divite any numeric.

‘//’ = this is floor division operator , it divided the number and then rounds down to the nearser whole number.

\*\* = this is used for the power of front number it is called the exponentation,

^ = this is used to perfort the bitwise xor operator

* 1. List the logical operators.

Ans = and , or , not

* 1. Explain right shift operator and left shift operator with examples.

Left shift operator are those operator when they shift to ledt it miultiply by 2

And right shift operator are those when it shift to right it divide by 2

Example , a = 5

Print(a<<1) , output 10   
print(a>>1) output 2.5

* 1. 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.

Ans = a = [1,3,5,10,20]

If 10 in my list:

Print(“ys it is there”)

Else:

Print(“no its not”)