## **Assignment-7**

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:

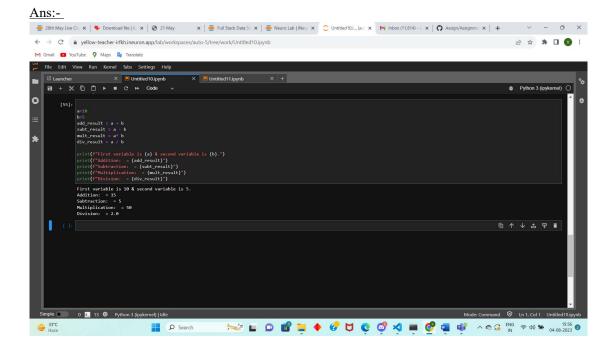
First variable is \_\_\_ & second variable is \_\_.

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

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

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

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



- Q.2. What is the difference between the following operators:
- (i) '/' & '//'
- (ii) '\*\*' & '^'

## Ans:-

- i) '/' & '//'
- a) / is a division operator . It perform regular division & return quotient as a floating point number.
- b) // is the floor division operator . It also perform division but it returns only the integer part of the quotient & discards the decimal part of the division.
- ii) '\*\*' & '^'
- a) \*\* is the exponentiation operator . It raises the left operands to the power of the right operand . ex:- 2\*\*3 would result in 8
- b) ^ is used as a bitwise XOR operator..

Q.3. List the logical operators.

Ans:- Following are the common logical operator:-

**AND operator(and):-** Return true if both operands are true.

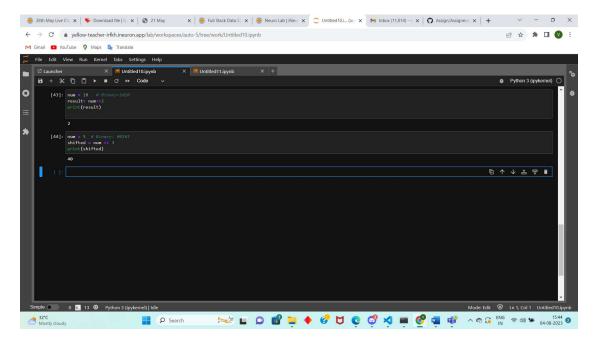
**OR operator(or):-** Return true if at least one operands is true.

**Not operator(not):-** Return the opposite value of operand.

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

Ans:- **Right Shift operator(>>):-** The right shift operator shifts the bits a number to the right by a specified number of position .

**Left Shift operator (<<):-**The left shift operator shifts the bits a number to the left by a specified number of position .



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.

Ans:-

