Assignment No 2 :(Operators)

Aim: Your task is to read the input numbers from the user [on the same line] and implement basic calculations - Addition, subtraction, division, floor division, multiplication, Exponentiation, Modulus.

Theory: Arithmetic operators are used to perform mathematical operations like addition, subtraction, multiplication and division.

There are 7 arithmetic operators in Python:

1. Addition

2. Subtraction

3. Multiplication

4. Division

5. Modulus

6. Exponentiation

7. Floor division

Operator	Name	Example
+	Addition	x + y
-	Subtraction	x - y
*	Multiplication	x * y
/	Division	x / y
%	Modulus	x % y
**	Exponentiation	x ** y
//	Floor division	x // y

Objective: To perform various arithmetic operations.

Code:

```python
num1 = int(input("Enter number 1: "))
num2 = int(input("Enter number 2: "))
Add=num1+num2
Sub=num1-num2
Div=num1/num2
Floor_Div=num1//num2
Mul=num1*num2
Exp=num1**num2
Mod=num1%num2
print("Addition = " ,Add)
print("Subtraction = " ,Sub)
print("Division = " ,Div)
print("Floor Division = " ,Floor_Div)
print("Multiplication = " ,Mul)
print("Exponentiation(num1^num2) = " ,Exp)
print("Modulus = " ,Mod)
```

Output:

```
C:\Users\soura\AppData\Local\Microsoft\WindowsApps\python3.10.exe "C:/SOURAV/CODE/Python codes/Python Assignment/Assignment2.py"
Enter number 1: 3
Enter number 2: 2
Addition =  5
Subtraction =  1
Division =  1.5
Floor Division =  1
Multiplication =  6
Exponentiation(num1^num2) =  9
Modulus =  1

Process finished with exit code 0
```

Conclusion: Arithmetic operations have many uses and helps in applying some conditions so learning them is useful.