PYTHON MODULE 1

1. Write a python program for the following problem statement

Read two integers from STDIN and print three lines where:

- 1. The first line contains the sum of the two numbers.
- 2. The second line contains the difference of the two numbers (first second).
- 3. The third line contains the product of the two numbers.

For example:

Input	Result
9	13
4	5
	36

PROGRAM:

a=int(input())

b=int(input())

print(a+b)

print(a-b)

print(a*b)

RESULT:

			Got	
~	9	13	13	~
	4	5 36	5 36	
~	10	13	13	~
	3	7 30	7 30	

2. write a python program to implement expression using bitwise and , or, not, ex-or, right shift and left shift operator. Read the values from the user.

For example:

Input	Result
10	0
4	14
	-11
	14
	0
	160

PROGRAM:

a=int(input())

b=int(input())

print(a&b)

print(a|b)

print(~a)

```
print(a^b)
print(a>>b)
print(a<<b)</pre>
```

RESULT:

	Input	Expected	Got	
~	10	0	0	~
	4	14	14	
		-11	-11	
		14	14	
		0	0	
		160	160	
~	15	4	4	~
	20	31	31	
		-16	-16	
		27	27	
		0	0	
		15728640	15728640	

- 3. Write a Python Program to take two numbers as input from the user and then calculating the following with nested if statement.
- 1. check whether the number are equal or not.
- 2. find the largest of two numbers

For example:

Input	Result
6	A is not equal to B
3	A is larger than B

Input	Result
7	A is equal to B
7	

PROGRAM:

a=int(input())

b=int(input())

if a!=b:

print("A is not equal to B")

if(a>b):

print("A is larger than B")

else:

print("B is larger than A")

else:

print("A is equal to B")

RESULT:

	Input	Expected	Got	
~	6	A is not equal to B A is larger than B	A is not equal to B A is larger than B	*
~	7	A is equal to B	A is equal to B	~

Passed all tests! 🗸

Marks for this submission: 2.00/2.00.

4. Write a Python program to read the input from the user and print the type of the literal.

Hint: Use eval()

For example:

Input	Result
1.78	<class 'float'=""></class>
(1,2,3)	<class 'tuple'=""></class>

PROGRAM:

a=eval(input())

print(type(a))

RESULT:

	Input	Expected	Got	
~	1.78	<class 'float'=""></class>	<class 'float'=""></class>	~
~	(1,2,3)	<class 'tuple'=""></class>	<class 'tuple'=""></class>	~
~	[1,2,3]	<class 'list'=""></class>	<class 'list'=""></class>	~

5. Correct the python program to evaluate the following expression a+b*c-a/b

For example:

Input	Result
4	14.0
2	
6	

PROGRAM:

a=int(input())

b=int(input())

c=int(input())

x=a+b*c-a/b

print(float(x))

RESULT:

	Input	Expected	Got	
~	4 2 6	14.0	14.0	~
~	10 4 2	15.5	15.5	~

Passed all tests! 🗸