

21 May

Python Basic - 2

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 & second variable
is b

Addition: $a+b=c$

Subtraction: $a-b=d$

Multiplication: $a*b=e$

Division: $a/b=f$

Print("Addition")

Print("Subtraction")

Print("Multiplication")

Print("Division")

2: What is the difference between the following operators:

- (i) '/' & '//'
- (ii) '**' & '^'

Ans: / vs //

/ used to division the variables and give the exact value while // used to get higher value for eg: $7/2=3.5$ and $7//2=4$.

'**' & '^'

** used as a power for variables while ^ used to performed the XOR function

3: List the logical operators.

Ans: AND: It return when both variables are true otherwise it show false

OR: It return true if any value are true

NOT: It return always reciprocal result if variables are true than result is false and vice versa.

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

Ans: Right shift operator:

Shifting the number to the right of a certain number of position.

Eg: n=12 #1100

result=n>>2

print(result) #output is 3 (0011)

Left shift operator:

Shifting the number to the left

Eg: n=12 #1100

result=n<<2

print(result) # output is 96 (110000)

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: list1=[12,23,12,23,12,45,10,1,2,3,4,5,6,7,8]

if 10 in list1:

print("present")

else:

print("not present")