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 ____ & second variable is ___.

Addition: ___ + ___ = ___

Subtraction: ___ * ___ = ___

Multiplication: ___ * ___ = ___

Division: ___ / __ = ___
```

Solution:-

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

(i) '/' & '//'

Solution:-

```
a=6
b=5
print(a/b) # These function will give the exact division of the two number (divison)
print(a//b) # These function will give the integral division of the two number (Floor division)

[22] 
0.0s
... 1.2
1
```

(ii) '**' & '^

** -> Exponential operator

```
| D \rightarrow | a=10 # Binary-> 1010 | b=4 #Binary-> 0100 | print(a^b) | \sqrt{27}  \sqrt{0.0s} |
```

Q.3. List the logical operators.

Solution:-

Q.4. Explain right shift operator and left shift operator with examples. Solution:- Right Shift Operator:- Shifts the bits of the number to the right and fills 0 on voids left(fills 1 in the case of a negative number) as a result.

```
# Right Shift operator in python
a=10
# Shift the bit towards the right
print(a>>1)

[35]  

0.0s

+ Code + Markdown
```

Left Shift Operator: Shifts the bits of the number to the left and fills 0 on voids right as a result.

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. Solution:-

In 1st screenshot 15 is in the list In 2nd screenshot 15 is not in the list