 # Reserved Keywords in Python

#and, assert, break, class, continue,

#def, del, elif, else, except, exec,

#finally, for, from, global, if, import

#in, is, lambda, not, or, pass, print,

#raise, return, try, while, with,

Indentation

Ex- if (a > b){

print("This")

if(b>c){

print("Hi")

}

}

#

Whitespace at the beginning of the line is called

Indentation this whitespaces are very important in

Python. In most programming Languages indentation has

no effect on programming Logic, however in Python

indentation is used to associate a group of statements

Example -

#age = 21

#print("You can Vote")

#>>> You can Vote

Here the error explains there is mismatch in indentation

level. Python very strictly checks the indentation level

and gives an error accordingly.

NOTE:- All statements inside a block should be at

same indentation level.

Operators & Expression

 # 1. Arithmetic Operator

 # 2. Comparison/ Relational Operator

 # 3. Assignment Operator

 # 4. Logical Opt

 # 5. Unary Opt

 # 6. Bitwise Opt

 # 7. Membership Opt

 # 8. Identity Opt

#----------

1. Arithmetic Operator: +, -, /, *, //, **, %

a = 2

b = 6

#print(a/b)

#>> 6.8

#print(a**b)

#>> 64

 # 2. Comparison/ Relational Operator:

==, !=, >, <, >=, <=

It will always result in boolean evaluation

TRUE or FALSE

 # 3. Assignment and Shortcut Operator:

= , +=, -=, *= ,/= ,%=, //= , **=,

```
#a=3
#b=4
#print(a += b) # a = a + b
#a=3
#b=4
#print(a-=b) # a = a - b
#a=3
#b=4
#print(a*=b) # a = a * b
#a=3
#b=4
#print(a/=b) # a = a / b
#a=3
#b=4
#print(a%=b) # a = a % b
#a=3,b=4
#print(a//=b) # a = a // b
#a=3,b=4
#print(a**=b) # a = a ** b

#-----------------------------------

# str1 = "Hello"
#a = "Everyone"
#str1 +=a
#print(str1)
#>>>HelloEveryone

# Shortcut also applicable on String
```

Unary - minus operation

a = 10

b = -(a)

>>> -10

Bitwise Operator: & , | , ~[NOT], ^ [XOR]

#a = 10101010

#b = 01010101

#print(a&b)

#SyntaxError: leading zeros in decimal integer literals are not permitted; use an 0o prefix for octal integers

#a = 5

#b = 10

#c = a & b

#print(c)

#a = 8

#~a

#-9

#a = 3

#b = 4

#a ^ b

#7

Right Shift

#a >> 1

#2

```
#a = 2
#a >> 1
#1


# Input Operation
# To take some value through keyboard
#name = input("Enter your name: ")
# Whatever is recieved
# through input function is always String
#age = int(input("Enter your age: "))
#print(type(name),type(age))
#print("Your name is: ",name,"Age: ",age)


#----------------------Lab Program---------
# 1. WAP to check number is positive or negative
# 2. WAP to find the maximum of 3 numbers
# 3. WAP to swap 2 variables without using 3rd variable
# 4. WAP to check year is Leap Year or Not
# 5. Calculate the total amount with given principal and
#    rate of interest
# 6. Find the Average of the marks obtained in 5 subject\
#-------------------------------------------------
# if (1==2):
```