Operator

↳ a = 4, b = 8
a + b = 12
a - b = -4
a * b = 32
a y. b = 0.5

↳ 5**3 # 125

7 y. 2 = 1 (Reminder)

7 // 2 = 3

8 // 2 = 4

↳ a = 7
b = 2
a // b = 3
a / b = 3.5
-9 // 2 # -5

↳ 5**3 # 125

Arithmetic

3 < 4 → T
4 > 4 → T
4 = 4 → T

"a" == "a" # True
"aa" < "b" # True
"abc" < "aac" # False

ord('a') # 97
chr(97) = a

ident. and Membership

$x = 4$
$y = 5$ } type(x) is type(y) #T
type(x) is int #T

$x = 4$
$y = "hi"$ } type(x) is not type(y) #True

↳ valid_java = ["1.5", "1.6", "1.7", "1.8"]
host_java = "1.6"
if (host_java in valid_java):
    pt("")
else: pt ("Invalid java version")

↳ db_user = ["admin", "root", "user", "guest"]
random_user = "root"
if (random_user not in db_user):
    pt("")
else:
    pt("User found")

↳ 3>1 and 1 in [3,4,5] ⇒ false
T F

↳ 1<2 and 2<3 and 3<4 # True
2<3 or 1<2 or 4<3 # False } Logical

↳ 1<2 or 3<4 or 4>3
not in 1<2 or # True
3<4 or 4>3 # True

1<2 and 2<3 and 3<4 and 5<6 # True
all([1<2, 2<3, 3<4, 5<6]) # True
any([1<2, 2<3, 3<4, 5<6]) # True

ABdul:-

a=14
b=4

a+b = 18
a-b = 14
a*b = 56
a||b = 3

a/b = 3.5
a//b = 2
2**5 = 32

a=6
b=3

a+=b
a,3
a-=b
3,3

a*=b
a=18
b=3

a=6
b=3
a//=b # 2.0

X=10

xf = (a*b-c) (2*3-4)
10+2 = 12

↳ lenght = eval(input(" "))

breadth = eval(input(" "))

area = lenght * breadth

↳ area = 1/2 * base * height

base = (base*height)/2

(area = 1/2 (base * height))

10
5
25.0

↳ Area of trapezium

area = 1/2 * (a+b) * h

↳ Area of circle

pi * r * 2

math.pi * r * r

↳ Kms to miles

1km = 0.62137 miles

kms = 15

miles = kms * 0.621371

11 miles = 9.320565

↳

// displacement

d = (v*v - u*u) / (2*a);

((v*v) - (u*u)) / (2*a)

// surface area of a cubiod

length = 10
breadth = 5
height = 2

Surface_area = 2*((l*b) + (b*h) + (h*l))

Quad

x1 = (-b - math.sqrt(b*b - 4*a*c)) / (2*a)

x2 = -b + math.sqrt(b*b - 4*a*c)) / (2*a)

String Concat

s = "abc"
s + 10 ✗

↳ s1 = "abc"
s3 = "xyz" ✓
s1 + s3 ✓ ⇒ abcxyz
s1 + str(10) ✓ ⇒ abc10

↳ s = "abc"
s * 3 = "abcabcabc"
↳ s2 = "abc" ⇒ "abc abc abc"

↳ a = 10.5
b = 3.1
a || b = 3.0 ✓
a % b = 1.99 ✓

TFT ⇒ 2 . (T + 5) = 6 (T + 2.4) = 3.4

↳ 3 + (2 + 3j) = 5 + 3j
(True + 3 + 4.5 + (2 + 3j))
⇒ 10.5 + 3j ✓

(bool << int << float << complex)