CSE 4107

QUIZ-04

Name: Rahinur Bin Naushad

ID : 220041118

Arithmetic and Logical expression

Arithmetic operations be like :

x=x+1 in Computer Science	x=x+1 in Math

Also logical operation :

&&	!alive	alive
!dead		
dead		

Arithmetic expressions

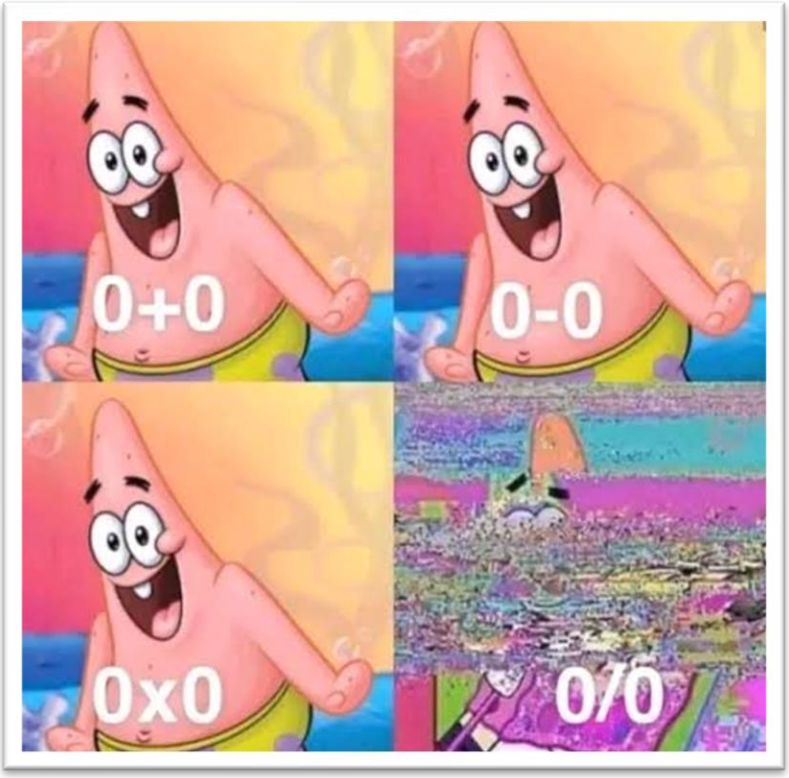
There are five arithmetic operators in C, which are given below:

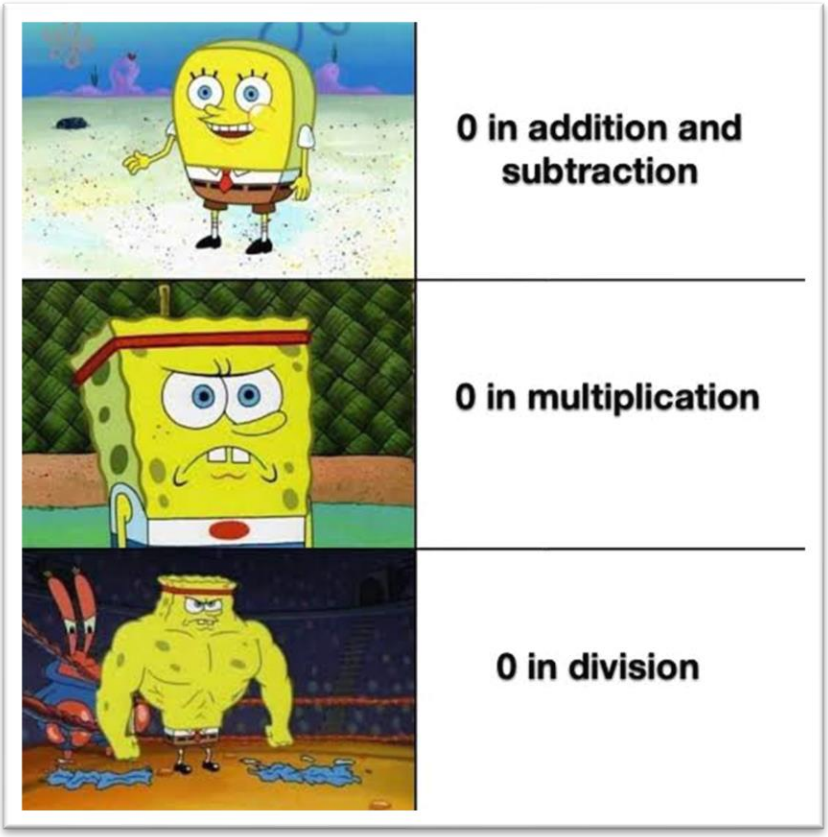
Operator	Name of the operator	Arithmetic operation	Syntax
+	Addition	Add two operands.	x+y
-	Subtraction	Subtract the second operand from the first operand.	x-y
*	Multiplication	Multiply two operands.	x*y
/	Division	Divide the first operand by the second operand.	x/y
%	Modulus	Calculate the remainder when the first operand is divided by the second operand.	x%y

N.B

i)Dividing by zero will crash the program.

ii)Modulus only works for int (integer) datatype.


0+0
0-0
0x0
0/0


0 in addition and subtraction
0 in multiplication
0 in division

Logical expressions

There are 3 three logical operators in C, which are given below:

1. Logical AND operator (&&)

X	Y	X&&Y
0	0	0
1	0	0
0	1	0
1	1	1

2. Logical OR operator (||)

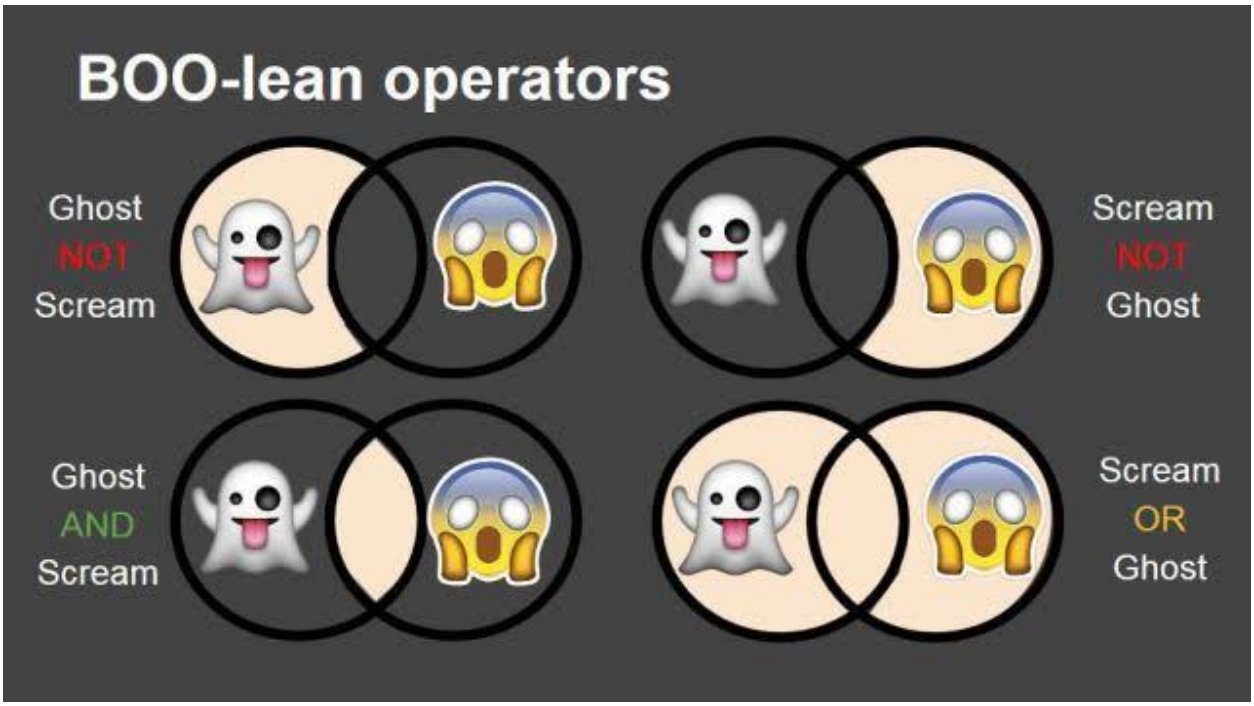
X	Y	X&&Y
0	0	0
1	0	1
0	1	1
1	1	1

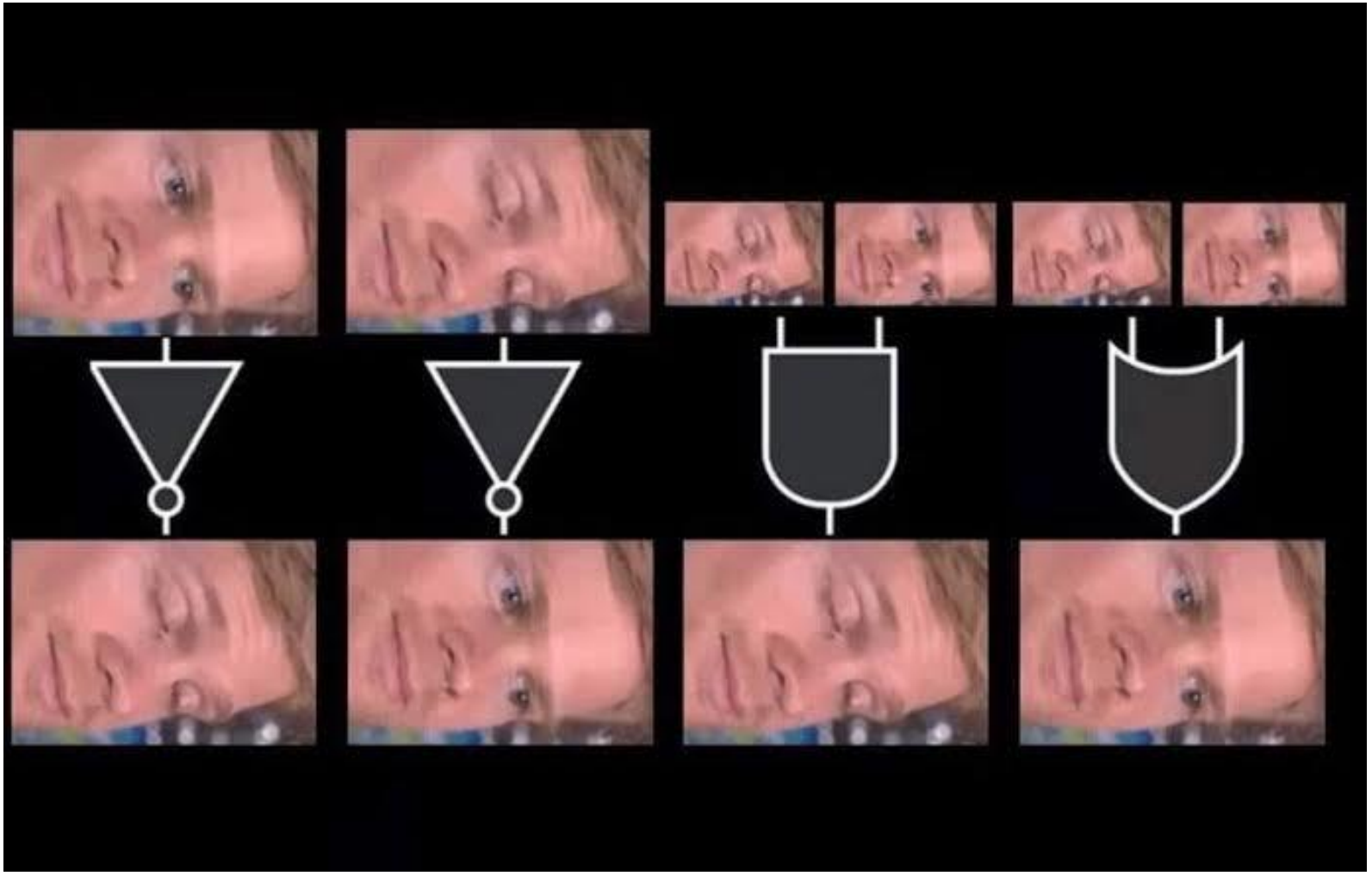
2. Logical NOT operator (!)

X	!X
0	1
1	0

N.B

Here, 0 and 1 represent false and true statements respectively.

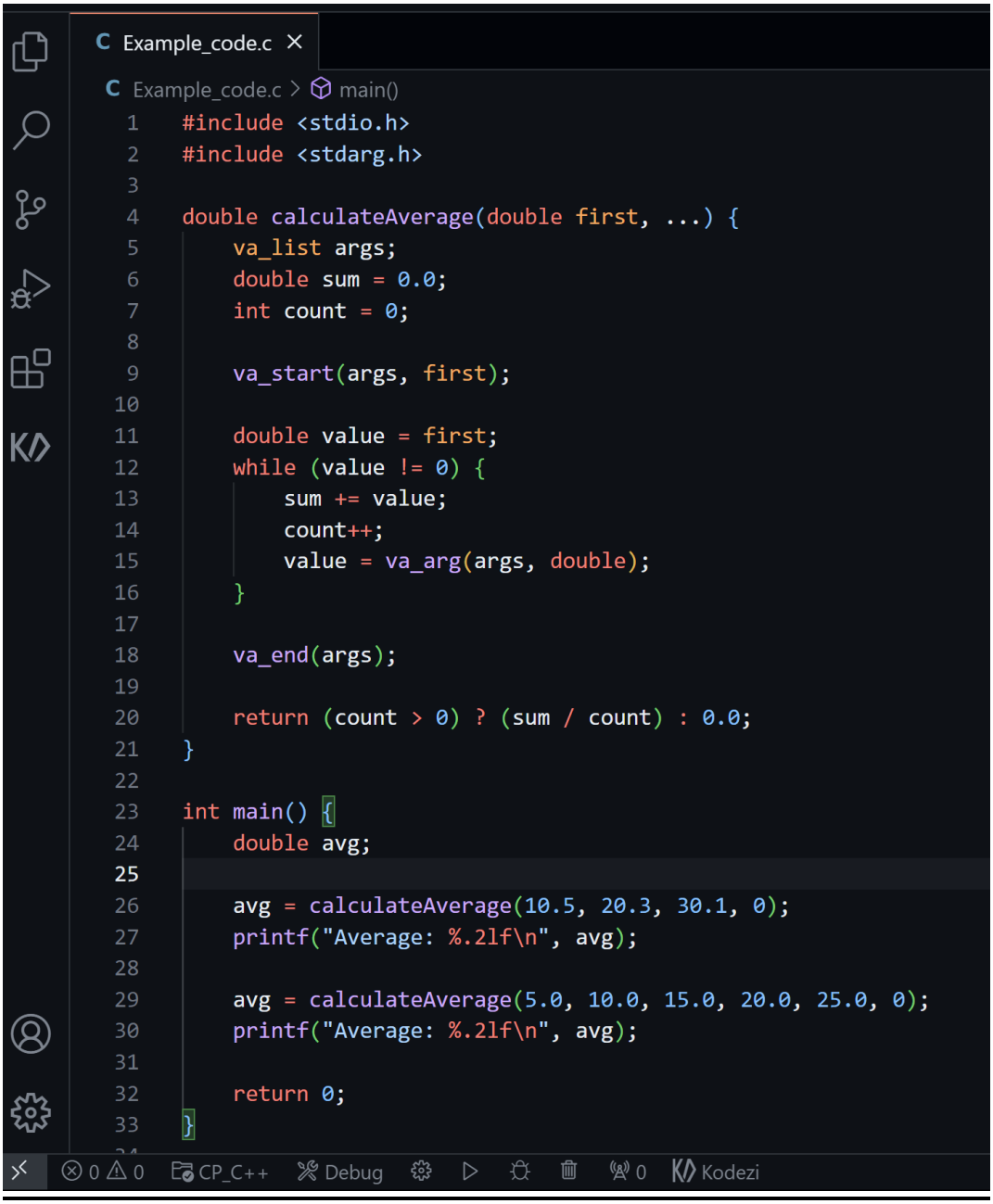




An example problem1

Create a function that takes as many arguments as the user wishes and return their average number.

Solution



An example problem2

Given a string of lowercase alphabet as an input. Check how many vowels are there in the string.

Solution