

Exercise 2.1.3

Expression	Evaluates To	Data Type
$3 * 2$	6	int
'3' +'2'	'32'	string
$3/2$	1.5	float
$3//2$	1	int
$3+2.0$	5.0	float
$3>2$	True	boolean
$3!=2$	True	boolean
$4 == 2^{**}2$	True	boolean
$3>2$ and $10>11$	False	boolean
$3>2$ and $(10>11)$ not	True	boolean
<code>format(5.1,'.2f')</code>	5.10	float
<code>Not(3>2</code> $5<4)$	True	boolean

What is a syntax error? Give an example of one in Python.

A syntax error is an error which occurs when there is a typing or spelling error (mismatch in the syntax) of the built in functions and keywords in python.

Example: prnt("Hello World")

Example: dfe function()

What is a run time error? Give an example of one in Python.

A program with a runtime error is one that passed the interpreter's syntax checks, and started to execute.

Example: print(1/0)

Example: print(1+"HelloWorld")

What is a logic error? Give an example of one in Python.

A logic error occurs when the program executes properly without any error but the program does not work as expected, which is a logical error.

Example: print(f'The sum of 2 and 3 is {2-3}')

Example: print(f'2 times 3 is: {2+3}')