

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
format(5.1, '.2f')	5.10	float
Not(3>2 5<4) and	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}")`