CS101

Gregory Gagnon

[Gmg634@mail.umkc.edu](mailto:Gmg634@mail.umkc.edu)

Program one – Test Sheet of Data and Error Messages

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Student Name |  | CS 1010 |  | Program I |
| Programs | 100 | 90 | 50 | 89.5 | 1 |
| Quizzes | 100 | 90 | 60 | 105 | 2 |
| Assignments | 100 | 90 | 70 | 66 | 3 |
| Exams | 100 | 90 | 80 | 54 | 4 |
| Final | 100 | 0 | 90 | 100 | 5 |
| Total | 100 | 72 | 70 | 80.15 | 3 |
| Expected Total | 100 | 72 | 70 | 80.15 | 3 |
| Program Total | 100.0 | 72.0 | 70.0 | 80.14999r | 3.0 |

1. >>> a

Traceback (most recent call last):

File "<pyshell#0>", line 1, in <module>

a

NameError: name 'a' is not defined

Because the variable a has not been defined, the interpreter doesn’t know what to do with it.

2. >>> x = 5

>>> x + 5 = y

SyntaxError: can't assign to operator

The left side of an equals sign is an assignment not an equality. It can only be one variable to be valid.

3. >>> my\_int

'hello'

>>> my\_float = float(my\_int)

Traceback (most recent call last):

File "<pyshell#7>", line 1, in <module>

my\_float = float(my\_int)

ValueError: could not convert string to float: 'hello'

Cannot assign a float value to a string of letters.

4. >>> y = 5

>>> 5 = 6

SyntaxError: can't assign to literal

A variable cannot be a number (or begin with a number).

5. >>> 5/0

Traceback (most recent call last):

File "<pyshell#10>", line 1, in <module>

5/0

ZeroDivisionError: division by zero

It is mathematically impossible to divide by zero, and the interpreter doesn’t try to.

6. >>> 5+ 6 \

SyntaxError: unexpected indent

Correct indentation is necessary in Python. In this case, the extra spaces before 5+6 confused the interpreter.

7. >>> print("hi there)

SyntaxError: EOL while scanning string literal

The closing quotation marks were missing after hi there, causing the error.

8. >>> import waffles

Traceback (most recent call last):

File "<pyshell#20>", line 1, in <module>

import waffles

ImportError: No module named 'waffles'

Import function allows access to pre-coded modules, i.e. the math module. However, there is no module named waffles.

9. >>> my\_str = "hello"

>>> my\_str / 2

Traceback (most recent call last):

File "<pyshell#27>", line 1, in <module>

my\_str / 2

TypeError: unsupported operand type(s) for /: 'str' and 'int'

The division operand does not work for strings or integers, and “hello” cannot be converted to a floating point.

10. >>> assert(4==5+3)

Traceback (most recent call last):

File "<pyshell#55>", line 1, in <module>

assert(4==5+3)

AssertionError

Assert is used for debugging, and I made an untrue assertion – returning an error.