Worksheet: Debugging

COSC 101, 2018-01-31

1) Warm-up
Write a program that asks for the length and width of a rectangle and prints the area.

2) ParseError
What is the error? How would you fix it?
   a. myVar 10

   b. (1 + 2) * ( 3 + 4 ) * 5)

   c. print("This is a string'

   d. print("Strings "are" fun")

3) TypeError
What is the error? How would you fix it?
   a. "Hamilton" + ',' + """"NY"""" + 13346

   b. input("Enter a number:") * 10

   c. len(999)

   d. print(1) + print(2)
Debugging practice
A scientist tried to write a program to that asks for a temperature in degrees fahrenheit and converts the temperature to degrees celsius and degrees kelvin. (Line numbers are included for reference.)

```python
1  f = input("Temperature in degrees fahrenheit:"))
2  c = f - 32 * (9 / 5)
3  print("Temperature in degrees celsius:"+c)
4  k = c + 273.15
5  print("Temperature in degrees kelvin:+k")
```

Programming practice
a. Write a program that asks for the cost of an item and prints the tax amount and total cost with a tax rate of 8%.
b. Write a program that plays a short game of mad libs: ask for three words and fill them in a sentence. (E.g., She verb the adjective noun.)