CSCI 236 Python Programming Fall 2018

**Modify the original code and make it more robust**

* The program below is not very robust. We can easily make it crash.
* Observe each function and see how to make it fail, or see why it will fail the way it is called
* Make the program crash. Register the **XXXXError** that is generated. For example, if the output of the crash looks like this:
* Traceback (most recent call last):
* File "/Users/thiebaut/Desktop/except0.py", line 29, in <module>
* main()
* File "/Users/thiebaut/Desktop/except0.py", line 27, in main
* example3( [ 10, 3, 5, 6 ] )
* File "/Users/thiebaut/Desktop/except0.py", line 18, in example3
* sum = sum + L[i]
* **IndexError**: list index out of range

what you are interested in is **IndexError**. This is the *exception* you want to guard your code against.

try:

........

........

except IndexError:

.........

* Verify that you have made your functions more robust to erroneous input/data.

Original Code:

**def** example1():

**for** i **in** range( 3 ):

x = int( input( "enter a number: " ) )

y = int( input( "enter another number: " ) )

**print**( x, '/', y, '=', x/y )

**def** example2( L ):

**print**( "**\n\n**Example 2" )

sum = 0

sumOfPairs = []

**for** i **in** range( len( L ) ):

sumOfPairs.append( L[i]+L[i+1] )

**print**( "sumOfPairs = ", sumOfPairs )

**def** printUpperFile( fileName ):

file = open( fileName, "r" )

**for** line **in** file:

**print**( line.upper() )

file.close()

**def** main():

example1()

L = [ 10, 3, 5, 6, 9, 3 ]

example2( L )

example2( [ 10, 3, 5, 6, "NA", 3 ] )

example3( [ 10, 3, 5, 6 ] )

printUpperFile( "doesNotExistYest.txt" )

printUpperFile( "./Dessssktop/misspelled.txt" )

main()

Your robust code here: