Study Guide for Test 3

You are responsible for these topics:

• Mutable(str,list,dictionary) vs Immutable Data(tuples)

• dictionaries: access, check if key in the dictionary,

If --- in dictionary

.keys())

Shows keys in dictionary

, .values()

Shows values in dictionary

, .items()

Shows keys and corresponding values

• memory representation of data: as references to memory holding values, shallow and deep copy. Be able to draw box-and-arrows diagrams.

• imperative control structure: for- and while-loops

For I in (list or tuple)

Statement

While statement:

Statement

• trace a loop (table of iterations)

• Exceptions

Try

Except

• Object-oriented programming: class, object, constructor, methods, getters and setters

Study suggestions:

• Chapter 5 and Chapter 6 until section 6.6.

• Review the lab and homework exercises - you should be able to re-do them more easily now.

• The slides are another good resource, although I've left a few slides in that we didn't cover. That might be a good resource to study together with other students, so you can remind each other which parts can be ignored.

Exceptions:

try:

[possible error generating code here.]

Except <optional error name here (otherwise all exceptions caught)>:

[handle the error/exceptions]

Else: (optional)

[This part will run when no exceptions caught]

Finally: (optional)

[whether you run except or not, this part will be executed.]

Try:

F = open(“test.txt”,”r”)

Content = f.readlines()

except ValueError:

Print(“hey”)

except NameError:

Print(‘Hoy’)

except:

Print(“yay”)

finally:

Print(“I don’t care”)

Know ZeroDivision Error, ValueError, NameError. Basic errors

Inheritance not required to know, getters and setters not required

exceptions ,box and arrow, loop tracing, recursion converted to loop, classes