(Start of the lecture 8 notes)

LECTURE 8: TUPLES

Tuples

Like strings, but each element can be something other than a character and, we use (,) rather than (')

Costs = (1, 2.6, 7.1, -3.14) Print (costs [0])

When to use

- Representing coordinates
- Health records
- Playing cards
- Map positions
- To return multiple values (return (name, age, gender))
- To swap values between variables (a, b) = (b, a)
- To test for one of a series of values (number in (12, 1, 2))
- As keys to dictionaries (see later...)

Mutability

Immutable – once created can't change elements must create a whole new tuple

Lists

Mutable

Use [,] rather than (,)

['head', 'tail', 'tail'] [5, 5, 30, 10, 50] [1, 2, 'buckles my shoe', 3.0, 4.0] fruit = ['orange', 'apple', 'apple']