Nguyễn Đình Tiến – C4E20 – Quiz

1. What are the main functional differences between a while and a for?

The while loop is a general looping statement, but the for is designed to iterate  
across items in a sequence or other iterable. It works on strings, lists, tuples, ... Although the while can imitate the for with counter loops, it takes more code and might run slower.

2. What’s the difference between break and continue?

- The break statement exits a loop immediately

- Continue jumps back to the top of the loop

3. When is a loop’s else clause executed?

The else clause will be run once as the loop is exiting, if the loop exits normally A break exits the loop immediately

4. How can you code a counter-based loop in Python?

Counter loops can be coded with a while statement that keeps track of the index

manually, or with a for loop that uses the range built-in function to generate successive

integer offsets

5. What can a range be used for in a for loop?

The range built-in can be used in a for to implement a fixed number of repetitions,

to scan by offsets instead of items at offsets, to skip successive items as you go, and

to change a list while stepping across it