1. . What is the difference between enclosing a list comprehension in square brackets and parentheses?

() **parentheses** are used for order of operations, or order of evaluation, and are referred to as tuples. [] **brackets** are used for lists. List contents can be changed, unlike tuple content.

1. What is the relationship between generators and iterators?

Iterator: Iterators are used mostly to iterate to convert other objects to iterator using iter()

Generators: Generators are mostly using in loops to generate an iterator by returning all the values in the loop without affecting the iteration of the loop

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1. What are the signs that a function is a generator function?

A generator is a special type of function which does not return a single value, instead, it returns an iterator object with a sequence of values. In a generator function, a yield statement is used rather than a return statement.

1. What is the purpose of a yield statement?

A yield statement looks much like a return statement, except that instead of stopping execution of the function and returning, yield instead provides a value to the code looping over the generator and pauses execution of the generator function.

1. What is the relationship between map calls and list comprehensions? Make a comparison and contrast between the two.

List comprehension is more concise and easier to read as compared to map. List comprehension are used when a list of results is required as map only returns a map object and does not return any list. Map is faster in case of calling an already defined function (as no lambda is required).