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

**Ans: Square brackets are lists while parentheses are tuples. A comma must be included in a tuple even if it contains only a single value. e.g. (1,) instead of (1)**

2) What is the relationship between generators and iterators?

**Ans: iterators are used mostly to iterate or convert other objects to an iterator using iter() function. Generators are mostly used in loops to generate an iterator by returning all the values in the loop without affecting the iteration of the loop**

3) What are the signs that a function is a generator function?

**Ans: It is as easy as defining a normal function, but with a yield statement instead of a return statement. If a function contains at least one yield statement (it may contain other yield or return statements), it becomes a generator function. Both yield and return will return some value from a function.**

4) What is the purpose of a yield statement?

**Ans: 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.**

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

**Ans: 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).**