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

Ans. list comprehension will give you the list but putting in parentheses makes it a generator and it gives one item at a time on calling next on it.

2) What is the relationship between generators and iterators?

Ans. generator and iterators both iterate and give one element at a time when next is called.

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

Ans. When the function gives one element at a time and it contains a yield statement then the function is a generator.

4) What is the purpose of a yield statement?

Ans. Yield statement acts like a return statement but does not terminate the function.

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

Ans. map and list comprehension both iterate over the elements. map return a function object whereas list comprehension return a list.