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

Ans: Enclosing values in list comprehension in square bracket will create list and a list comprehension nclosed in paranthesis will create generator.

2) What is the relationship between generators and iterators?

Ans: Both generators and iterators are user to iterate. Both can use next() to get the next value while iterating.

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

Ans: The function with at least one yield statement is a generator. That function will be returning a generator object.

4) What is the purpose of a yield statement?

Ans : yield statement is used to create a generator. To return from a function without losing its local variable state and it also enables the function execution from the last yield statement.(last function local variable value.)

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

Ans: map calls , as it names , it maps a function to iterable. It helps reduce the lines of code and complexity in execution. To apply a function , in list comprehension, we have to access each list element seperately and have to apply function. This increases length of code and operational complexity. But map reduces this.