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

Ans: Enclosing list items in square brackets meaning it can mutable, while for parenthesis it is tuple items and immutable

2) What is the relationship between generators and iterators?

Ans: Generator in python is subclass of iterator. iterator in python is subclass of iterable

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

Ans: Generator uses a function and yield statement in function.

4) What is the purpose of a yield statement?

Ans: to yield the result of function

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

Ans: List comprehension is more concise and easier to read as compared to map.

Map is faster in case of calling an already defined function

List comprehension is faster than map when we need to evaluate expressions that are too long or complicated to express

List comprehensions are used when a list of results is required as map only returns a map object and does not return any list.

List comprehension allows filtering. In map, we have no such facility.