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

Answer: The list comprehension within square brackets are mutable and while in parenthesis they are immutable and are called tuples instead of tuples.

2) What is the relationship between generators and iterators?

Answer: Every generator can be an iterator.

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

Answer: Inside a function if we use any loop to generate values along with yield keyword , it will generate values one by one and hence it will be a generator function.

4) What is the purpose of a yield statement?

Answer: yield statement is used to generate values just like return statement but and pauses the execution of generator function depending on the code execution .

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

Answer: List comprehension is a good substitute for map calls and is more concise, clear to read.

It is also faster when we need to filter very long and unreadable expressions but overall map calls are faster and is useful in calling functions that are already defined.